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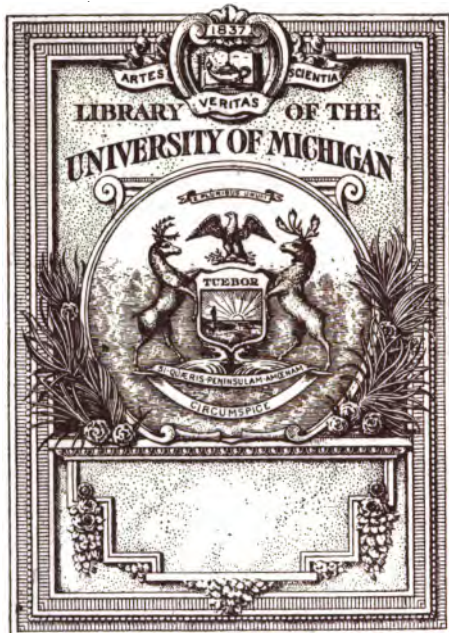
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**THE AMERICAN ASSOCIATION OF PORT AUTHORITIES**

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**SELECTED BIBLIOGRAPHY**

**ON**

**PORTS AND HARBORS**

**AND**

**THEIR ADMINISTRATION, LAWS, FINANCE,  
EQUIPMENT AND ENGINEERING**

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**PRICE \$1.00**

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**COMPILED BY**

**WILLIAM JOSHUA BARNEY, C. E., SECRETARY  
29 BROADWAY, NEW YORK  
AUGUST, 1916**



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## INTRODUCTION

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This bibliography has been prepared by the Secretary in response to a resolution passed at the Fourth Annual Meeting of the American Association of Port Authorities.

It contains 2563 references to books and articles in English, French, German, Italian, Spanish and Portuguese, relating to the ports and harbors of the world.

The references are divided into two sections. The first section is a place bibliography, in which the references are grouped (a) continents alphabetically, (b) countries alphabetically under each continent, (c) cities alphabetically under each country, (d) articles alphabetically by the first letter of the first word of the title under each city.

The second section is a subject bibliography, in which the references are grouped alphabetically by the first letter of the first word of the title under captions classifying the various phases of port and harbor administration, finance and engineering.

Acknowledgment is due to the various members of the Association and others who have suggested references, also to the Seattle Public Library for its courtesy in permitting the use of its reference list No. 5, "Harbors and Docks" February 1913, also to the "Engineering Index" and similar publications. The larger part of this bibliography, however, has been compiled by personal search in the libraries of the American Society of Civil Engineers, of the United Engineering Societies and of the Engineering Division of the New York Public Library, to the librarians of which appreciation is hereby extended for their courtesy and co-operation, also to Lilian Warner Barney for her valuable co-operation in research and editing.

As the Secretary hopes to issue a supplementary bibliography in each of the Association's annual Proceedings, members and others interested in port work are invited to suggest further references.

## REFERENCE LIST AND PERIODICALS

### ABBREVIATIONS AND TITLES

|                   |                    |             |
|-------------------|--------------------|-------------|
| a—annual          | m—monthly          | q—quarterly |
| b. a.—bi-annually | s. m.—semi-monthly | w—weekly    |
|                   | b. m.—bi-monthly   |             |

Am engr & r r jour—American Engineer and Railroad Journal. m. New York  
 Am soc for testing materials—Proceedings of American society for testing materials.  
 a. Philadelphia.

Amer inst of archts—American Institute of Architects, a. New York.

Ann de ponts et chaussus—Annales des Ponts et Chaussées. m. Paris.

Annals of am acad—Annals of the American academy of political and social science.  
 b.m. Philadelphia.

Ap sci—Applied science. m. Toronto.

Architects and builders' mag—Architect's and Builder's magazine. m. New York.

Automobile—Automobile. m. New York.

Autocar—

Beton u eisen—Beton und Eisen. s. m. Vienna.

British assn for advancement of science. a. London.

Can eng—Canadian Engineer. m. Toronto and Montreal.

Canadian soc of civ engs—The Canadian society of civil engineers. irreg. Montreal.

Cassier's mag—Cassier's Magazine. m. New York and London.

Cement age—Cement age. m. New York.

Le ciment—Le ciment. m. Paris.

Col guard—Colliery Guardian. w. London.

Cons repts—Consular reports. m. Washington, D. C.

Cornell civ engr—Cornell Civil Engineer. m. Ithaca, N. Y.

Dunn's review. w. New York.

Electr'n—Electrician. w. London.

Elec age—Electrical Age. m. New York.

Elec jour—Electric journal. m. Pittsburgh, Pa.

Elec rev—Electrical review. w. New York.

Elec Wld—Electrical world. w. New York.

Eng & min jour—Engineering and Mining Journal. w. New York.

Eng mag—Engineering magazine. m. New York and London.

Eng news—Engineering News. w. New York.

Eng rec—Engineering Record. w. New York.

Engng—Engineering. w. London.

Engng-Contr—Engineering-Contracting. w. New York.

Engr Lond—Engineer. w. London.

Gen elec rev—General electric review. m. Schenectady. N. Y.

Genie civil—Genie Civil. w. Paris.

Gluckauf—Gluckauf. w. Essen, Germany.

Giornale del genio civile—m. Rome.

Harpers—Harpers. m. New York.

Harpers' weekly. w. New York. (now the Independent. w. New York.)

Harvard engng jour—Harvard Engineering Journal. q. Cambridge, Mass.

Ind engng—Indian Engineering. w. Calcutta.

Independent. w. New York.

Int mar engng—International Marine Engineering. m. New York.

Int nav congress—Permanent international association of navigation congresses.  
b. a. Brussels.

Ir age—Iron Age. w. New York.

Ir & coal trds rev—Iron and Coal Trades Review. w. London.

Iron trade rev—Iron Trade Review. w. Cleveland.

Jour amer soc nav engrs—Journal of the American Society of Naval Engineers.  
q. New York.

Jour amer soc of marine draughtsmen—The Journal of the American Society of  
Marine Draughtsmen. q. Washington.

Jour assn eng socs—Journal of the Association of Engineering Societies. m. Bos-  
ton, Mass.

Jour Franklin institute—Journal Franklin Institute. m. Philadelphia, Pa.

Jour inst elect engrs—The Journal of the Institute of Electrical Engineers. s. m.  
London.

Jour of engrs club of Balt—Monthly Journal of the Engineer's Club of Baltimore.

Jour soc of arts—Journal of the Society of Arts. w. London.

Jour w. soc engs—Journal of the Western Society of Engineers. b. m. Chicago.

Mar rev—Marine Review. w. Cleveland, O.

Mining rev—s. m. Salt Lake City, Utah

Mines & minerals—Mines and Minerals. m. Scranton, Pa.

Mnfrs rec—Manufacturers' Record. w. Baltimore.

Monit tec—Il monitore tecnico. s. m. Vienna.

Munic jour & eng—Municipal Journal and Engineer. m. New York.

Nation's business. m. Washington.

Natl rev—Nation's review. m. New York.

Pac builder & engr—Pacific Builder and Engineer. w. Seattle, Wash.

Pacific northwest soc of engrs—Proceedings of Pacific Northwest Society of En-  
gineers. Seattle, Wash.

Power—Power. w. New York.

Pro am soc civ engs—Proceedings of the American Society of Civil Engineers. m.  
New York.

Pro am wood preservers assn—Proceedings of the American Wood Preservers'  
Association of Baltimore.

Pro amer assoc of port author—Proceedings of the American Association of Port  
Authorities. a. New York.

Pro amer philosophical soc—Proceedings of the American Philosophical Society.  
Irreg. Princeton, N. J.

Pro atlantic deeper waterways assn—Atlantic Deeper Waterways Association. a.  
Philadelphia.

Pro Brooklyn engrs club—Proceedings of the Brooklyn Engineers' Club. a.  
New York.

Pro engs club of Phila.—Proceedings of the Engineers' Club of Philadelphia. q. Philadelphia.  
 Pro inst civ engs—Proceedings of the Institution of Civil Engineers. London.  
 Pro mem—Professional memoirs. q. Washington, D. C.  
 Pro munic engs of N. Y.—Proceedings of the Municipal Engineers of the City of New York. a. New York.  
 Pro N. Y. ry club—Proceedings of the New York Railway Club. m. New York.  
 Pro natl conference on city planning—Proceedings of National Conference on City Planning. Boston.  
  
 Riv marit—Rivista Marittima. m. Rome.  
 R r age gaz—Railroad Age Gazette. w. New York.  
 R r gaz—Railroad Gazette. w. New York.  
 Ry age—Railway Age. w. Chicago.  
 Ry & eng news—Railway and Engineering Review. w. Chicago. (now Railway Review.)  
 Ry & engng rev.—Railway and Engineering Review. w. Chicago.  
 Ry and mar news—Railway and Marine News. s. m. Seattle, Wash.  
 Ry news—Railway news. w. London.  
 Ry rev—Railway Review. w. Chicago.  
  
 Safety engng—Safety Engineering. m. New York.  
 Schiffbau. Schiffbau. w. Berlin.  
 Schweiz bau—Schweizerische Bauzeitung. w. Zurich.  
 Sci am—Scientific American. w. New York.  
 Sci am sup—Scientific American Supplement. w. New York.  
 Scribner's mag—Scribner's Magazine. m. New York.  
 Shipping ill—Shipping Illustrated. w. New York.  
 Survey w. New York.  
  
 Tech mod—Technique moderne. m. Paris.  
 Technical world—Technical World Magazine. m. Chicago.  
 Trans am soc civ engs—Transaction American Society of Civil Engineers. a. New York.  
 Trans am soc mech engs—Transaction of the American Society of Mechanical Engineers. a. New York.  
 Trans am soc nav arch & mar engrs—Transactions of the American Society of Naval Architects and Marine Engineers. New York.  
 Trans int eng congress. Transactions of the International Congress of Engineers. San Francisco, Neal pub co., 1916.  
 Trans Liverpool eng soc—Transactions of the Liverpool Engineering Society. a. Liverpool.  
  
 W engng—Western Engineering. m. San Francisco.  
 Waterways. m. New York.  
  
 Yale rev—Yale Review. q. New Haven. Conn.  
 Yale sci m. Yale Scientific Monthly. m. New Haven, Conn.  
  
 Z.d.V.D.I.—Zeitschrift des Vereines Deutscher Ingenieure. w. Berlin.

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**Coaling ports of the world** by G. Harding Harper's Je 1916. 10 p ill

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**The navigable Rhine** by E. J. Clapp. (Comparison of harbors of the world with those of German Rhine harbors) New York: Houghton Mifflin Co

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- Utility of waterways** as a factor in transportation, address by J. A. Ockerson. Eng rec Dec 19, 1908. 2 p
- Waterways as creators of prosperity** by S. A. Thompson. Cincinnati: National river and harbor congress.

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### ALGERIA

- Algeria.** Note sur les travaux executes dans quelques ports de la Mediterranee by Quintette de Rochemont. Int nav congress 1900. 16 p 2 p
- Report** on the recent and most interesting breakwaters and application of reinforced concrete in the maritime ports of Algeria. Int nav congress 1912
- Sixty ton floating crane,** Nostaganen, Algeria by P. Caufourier. Genie civil May 1911

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## EGYPT

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### ALEXANDRIA

- Construction** des quais et collecteurs le long du Port-Est et de la baie d'Anfouchy, Alexandria. Alexandria: Commission municipale 1889. 12 v

**Harbor and coast** defense works at Alexandria, Egypt by D. E. Lloyd-Davies. Pro inst civ engs Nov 30, 1915

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**Der hafen von Port Said** im jahre 1909. Oest wochenschr. f. d. oeffent Baudienst, Je. 18, 1910. 2500 w. ill

**Port Said**, in Der Hafenbau; edited by G. Franzius. Leipsig: Wilhelm Engelmann 1912. 2 p

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**Porti spiagge e fari della Libia** by L. Luiggi. Giornale del Genio civile 1913. 38 p plans ill

### **LOME**

**Novel steel pier**, Lome, Africa. Eng news May 24, 1906

### **TRIPOLI**

**Harbor works** in the Tripolitaine. Engr May 16, 1913. 700 w Lon Serial 1st part (Bengasi)

**Opere pubbliche** a Tripoli by Luigi Luiggi. Rome 1912. 18 p ill

**Les travaux d'amelioration** des ports de la Tripolitaine et de la Cyrenaique by P. Calpas. Genie civil Sept 27, 1913. 300 w (Phares, Tripoli and Bengasi)

### **TUNIS**

**Account of work** carried out in principal sea ports of Tunis by A. Herrmann. Int. nav congress 1912. 16 p pl (Sfax, Sousse, Tunis)

### **SOUTH AFRICA**

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**Reports** of South African railway. (Table Bay Harbour and Cape Town)

### **NATAL**

**Natal harbor works** by C. H. Crofts. Pro inst civ engs 1912-13. Paper No 4006

### **DURBAN**

**Durban harbor** by C. W. Methven. Pro inst civ engs 1912-13. Paper No 3875

### **LONDON**

**40 ton steam titan crane** for East London. Engng Oct 3, 1913. 1 1-4 p ill

## CHINA

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### KOWLOON, HONG-KONG

**Corosin** of steel wharves at Kowloon by S. H. Ellis. Pro inst civ engs 1914—15

### SHANGHAI

**Reinforced concrete wharves** and warehouses at lower Pootung, Shanghai by S. H. Ellis. Pro inst civ engs 1911-12. 130 p ill plates. (Thorough discussion of concrete wharf and warehouse construction)

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### COLOMBO

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**Colombo-harbor.** Eng mag Feb 1907. 2 p

The completion of Colombo harbor, Ceylon. Engng May 31, 1912 3000 w ill

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## INDIA

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### BOMBAY

**New docks at Bombay.** Engr Lond Mar 27, 1914. 2000 w ill (serial 1st part)

**The new Bombay docks.** Engr Lond Nov 10, 1905 2-3 p  
**Reports** by Bombay port trust

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**The port of Calcutta** by C. C. Stevens. Jour soc of arts Je 16, 1899

**The port of Calcutta.** Engng Jy 17, 1914. 2500 w ill map

**Reports** by the Port of Calcutta

### MADRAS

**The alteration** of the form of Madras harbor by H. H. G. Mitchell. Pro inst civ engs Apr 1912. 23 p pls, paper No 4012.

**Light reinforced concrete wharves** Madras, India by F. J. E. Spring. Eng news May 2, 1912. 2 p ill

**Madras** in Der Hafenbau edited by G. Franzius. Leipsig: Wilhelm Engelmann 1912. 2 p

**The remodelling and equipment of Madras harbor** by F. J. E. Spring.  
Pro inst civ engs Apr 1912. 41 p pl paper No 3964. (see also papers  
No 4012 and No 4020)

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### BARROW

**Widening of the passage** between docks at Barrow in Furness. Engng Jan 20, Feb 3, 17, Mar 3, 1911. 11 p ill plans

### BARRY

**Barry**, in Report of River committee of London county council. London: Southwood Smith & Co 1907.

### BLYTH

**Blyth harbor improvements.** Engr Lond Mar 6, 1908 3 p ill plans

## AVONMOUTH

**Avonmouth**, England, wet and graving dock by A. D. Swann. Canadian soc of civ engs Dec 16, 1909 Vol 23

**Grain conveying machinery** at Avonmouth dock. Engr Lond Sept 24, 1909. 1 p ill

**Avonmouth**, in Report of River committee of London county council. London: Southwood Smith & Co 1907

**New dock facilities**. Eng news Apr 28, 1910. 2 p plans

**The royal Edward dock** at Avonmouth. Engr Lond Jy 24, 1908. 2 p (describes the grain conveying plant, electric cranes, etc)

## BRISTOL

**Bristol**, in Annual report of Harbor commissioners of Montreal 1914. 2 1-2 p

**Bristol**, in Report of River committee of London county council. London: Southwood Smith & Co 1907

**Bristol**, in Report on British and continental ports with a view to the development of the port of Montreal and Canadian transportation by G. W. Stephens and F. W. Cowie. Montreal 1908. 95 p maps

**Bristol channel**, King's dock Swansea. Engr Lond Nov 19, 26, Dec 10, 1909. 9 p ill plans

**Concrete monolith piers** at the royal Edward dock near Bristol. Eng rec Aug 8. 1908, 1-2 p

**The new dock facilities** at Avonmouth, Eng. Eng news Apr 28, 1910 1 p  
**Notes on the arrangement** for receiving importations of timber at Portished dock, Bristol by J. W. Kitchin. Pro inst of civ engs 1906-07. (describes quick running cranes) ill

**Report of docks committee**. (Bristol docks, plan of docks and river Avon) Bristol 1911

**Report of docks committee**. (Statement of accounts of the Bristol docks estate for the years 1911-12)

**Royal Edward dock** at Avonmouth, Bristol. Engng Jc 26, 1908. 2 p

**Report of docks committee**. (Port of Bristol; plan of building land adjoining Avonmouth docks to be let for the erection of mills, refineries, etc) 1906. 83 p ill

## BURRY, WALES

**Burry port**, its railway and docks. Ry news Jan 2 1915. 1 1-2 p

## CARDIFF

**Cardiff**, in Der Hafenbau, edited by G. Franzius. Leipsig: Wilhelm Engelmann 1912. 3 p

**Cardiff**, in report on British and continental ports with a view to the development of the port of Montreal and Canadian transportation by G. W. Stephens and F. W. Cowie. Montreal 1908. 95 p maps

**Cardiff**, in Report of River committee of London county council. London: Southwood Smith & Co 1907

**The new Cardiff dock.** Engr Lond Jy 12, 1907. 4 p ill plans

### **DOVER**

**Admiralty harbor** at Dover. Engng Oct 15, 1909. 5 p ill (gives design of breakwater).

**Dover harbor extension.** Engr Lond Aug 10, 1906. 42 p

**Dover harbor**, the new home for the British fleet by H. J. Shepstone. Technical world Apr 1910. 5 p ill

**Dover harbor works.** Engng Je 12, 1903. 6 p ill

**New harbor works at Dover** by H. J. Shepstone. Sci am sup Je 27, 1903. 1 p ill

**The port of Dover** by A. T. Walmisley. Jour soc of arts Apr 15, 1910. 9800 w maps

### **FISHGUARD**

**Electrically driven machinery** at Fishguard harbor. Elect'n Sept 24 1909. 5 p

**Fishguard harbor.** Engr Lond Dec 3, 1909. 3500 w pl

### **FOLKESTONE**

**Folkestone new pier** and harbor works. Engng Jy 8, 1904. 5 p ill plans

**Use of concrete** in reconstructing the Folkestone pier. Eng rec Oct 24, 1908. 3 p plans

### **GLOUCESTER**

**Gloucester** as an industrial center. Ry news Jy 4, 1914

### **GOOLE**

**Goole**, in European waterways. Pro of the state barge canal terminal commission 1911. Albany N. Y.: Legislature 1911. 7 p map ill

### **HULL**

**Hull**, in Annual report of Harbor commissioners of Montreal 1914. 2 p

**Hull.** London: Engraver's Je 19, 1914

**New hydraulic equipment** for the Albert dock, Hull. Engr Lond Je 19, 1908 1 p (Details of a 40-ton hydraulic coaling crane and 25-ton coal hoist) ill

**New joint dock at Hull.** Engng Je 26, 1914. 5500 w ill pl (serial 1st part)

**New joint dock at Hull.** Ry news Je 27, 1914. 7 p ill

### **IMMINGHAM**

**Immingham docks.** Engng May 14, 28, 1909. 6 p ill plans

**Immingham-Grimsby-on-Humber.** London: Great central ry (pamphlet)

## LEEDS

**Leeds**, in European waterways. Pro of the state barge canal terminal commission Albany N. Y: Legislature 1911. 2p

## LIVERPOOL

**The account of the Mersey docks** and harbor board for the year ending July 11, 1913. Liverpool: The Liverpool printing and stationery co 1913

**Address** by Wm Brodie. Liverpool: Liverpool eng soc 1909

**By-laws.** Liverpool: Mersey docks and harbor board

**Dock improvements at Liverpool** by G. C. Kenyon. Trans am soc civ engs 1904. 27 p

**Gladstone dock.** Pro mem 1913. 1-2 p (picture)

**Liverpool** in Annual report of harbor commissioners of Montreal 1914 6 p

**Liverpool** in European waterways. Pro of the state barge canal terminal commission 1911. Albany N. Y: Legislature 1911. 6 p maps

**Liverpool**, in Report of River committee of London county council. London: Southwood Smith & Co 1907

**Liverpool**, in Report on British and continental ports with a view to the development of the port of Montreal and Canadian transportation by G. W. Stephens and F. W. Cowie. Montreal 1908. 95 p maps

**Liverpool and Birkenhead**, in report on physical characteristics, European ports by C. W. Staniford. Pro mem 1912. 2 p

**The Liverpool docks problem** by R. Williams. 44 p maps

**Mersey bar** and channels of approach to Liverpool. Engr Lond Jy 11, 1902

**New Gladstone wet and dry dock.** Eng news Sept 4, 1913. 2 p ill

**New Liverpool dock** by Thomas Osborne. Int mar engng Oct 1913. 1 p

**The physical** and engineering features of the river Mersey and the port of Liverpool by G. F. Lyster (Chief Eng of docks and harbor board) 23 p

**The port of Liverpool** by Mark Meredith. Cassier's mag Jy 1911. 12 p

**Port of Liverpool**, its rise and progress by Mersey docks and harbour board. Liverpool: Littlebury Bros 1911. 96 p ill map

**Report of chief engineer.** Liverpool: Mersey docks and harbour board

**Report of Mersey docks and harbour board.** (The dock engineer's report on the general state and progress of the dock works at Liverpool and Birkenhead for the year ending 1911) 15 p

**Reports of Mersey docks and harbour board**

**Traumere bay development** by S. H. Ellis. Pro inst civ engs 1907-8 paper 3649

## LONDON

- Improvement of the port of London.** Eng mag Apr 1911. 4 p
- Improvement of the port of London.** Engng Feb 3, 1911. 2 1-3 p map
- Laws, statutes.** (The port of London act, 1908, together with the watermen's lightermen's act, 1859; the Thames conservancy act, 1894; and the Thames conservancy act, 1905, as amended by the port of London act, 1908; also a summary of the principal acts affecting the chief dock companies, together with the Thames conservancy by-laws, the watermen's by-laws and the by-laws of the dock companies; regulations of the board of trade, etc., 1910.) 433 p
- London,** in Annual report of harbor commissioners of Montreal 1914. 4 p ill
- London,** in Der hafenbau, edited by G. Franzius. Leipzig: Wilhelm Engelmann 1912. 7 p
- London,** in report of Rivers committee of London county council. London: Southwood Smith & Co 1907 (inspection of Manchester, Liverpool, Southampton, Cardiff, Barry, Bristol, Avonmouth, Antwerp, Rotterdam, Bremen, Bremerhaven and Hamburg and statement respecting port of London) 43 p
- London,** in Report on British and continental ports with a view to the development of the port of Montreal and Canadian transportation by G. W. Stephens and F. W. Cowie. Montreal 1908. 95 p maps
- London,** in Report on physical characteristics, European ports by C. W. Staniford. Pro mem 1912 Vol 4. 4 p
- Particulars of dry docks,** wharves, etc. on the Thames by C. H. Gordan. 103 p maps
- Port administration and harbor facilities** London by J. R. Smith Annals am acad Mar 1907. 3 p
- Port of London.** (financial review of income, etc.) Engng Oct 1, 1915. 1-6 p
- Port of London,** in European waterways. Pro of the state barge canal terminal commission 1911. Albany N. Y: Legislature 1911. 11 p map
- Port of London act, 1908.** (8 Edw. 7 ch. 68). London: Eyre & Spottiswoode 1908. 70 p (Wyman & Sons London)
- Port of London docks and traffic.** Engng Aug 13, 1915. 1-2 p
- The port of London** under the new regime by J. B. Broodbank. Natl rev Jan 1912. 11 p
- Proposals for improvement** and extension of dock accommodations in the port of London. (contains summary of other ports) by E. Palmer. London: Port of London authority 1910. 25 p maps
- Proposed improvements** of the port of London. Engng Feb. 3, 1911 3000 w serial 1st part
- Rapid luffing cranes** at Morocco wharf, Wapping. Engng Dec 2, 1910. 2 p plans

**Recent grain handling and storing appliances at Millwall docks** by M. Mowat. Pro inst civ engs 1908-1909 Paper No 3793 (soft grain.)

**Reports of port of London authority.**

**Travelling and slewing tower transporter.** Engr Lond Jy 1, 1910 ill  
(Brief description of electric crane for Plaistow wharf, Victoria docks)

## **MANCHESTER**

**Inland port of Manchester.** Eng news Dec 12, 1912. 6 p ill

**Manchester,** in Annual report of harbor commissioners of Montreal, 1914.  
2 1-2 p

**Manchester,** in European waterways. Pro of the state barge canal terminal commission Albany N. Y: Legislature 1911. 14 p map sections

**Manchester,** in Report of River committee of London county council. London: Southwood Smith & Co 1907

**Manchester,** in Report on British and continental ports with a view to the development of the port of Montreal and Canadian transportation by G. W. Stephens and F. W. Cowie. Montreal 1908. 95 p maps

**Manchester and the Atlantic traffic** by T. M. Young. Manchester: Sherratt & Hughes 1902. 86 p

**Manchester docks and their transport facilities.** Ry news Je 15, 1912. 4 p ill (costs and tonnage statistics and charges etc)

**Manchester,** the ocean port. Manchester: Manchester ship canal co 1914 184 p ill

**New dock at Manchester.** Engr Lond Jy 28, 1905. 1 p

**Plan of the port of Manchester.** Manchester: Manchester ship canal co 1915

**Port administration and harbor facilities** by E. S. Bradford. Annals of am acad Mar 1907. 2 p

**Port of Manchester** by Dunlop, Wallis & Co London 8 p maps

**Trafford park,** Manchester. Ry news Jy 1, 1912. 2 p (factory and warehouse development at Manchester)

## **METHIL**

**Docks at Methil and Port Talbot** by B. H. Blyth. Engng Nov 15, 1912. 1-2 p (abstract 2 papers inst civ engs)

**The Methil docks.** Engng Sept 4, 1908. 2 p

**New dock at Methil** by B. H. Bluch. Pro inst civ engs 1912-13 paper 3894

## **MILFORD, WALES**

**Milford docks and fishery pier.** Ry news Jan 20, 1912. 5 p ill

## NEWCASTLE-ON-TYNE

**Newcastle-on-Tyne**, in Report on British and continental ports with view to the development of the port of Montreal and Canadian transportation by G. W. Stephens and F. W. Cowie. Montreal 1908. 95 p maps

**The reconstruction** of the Tyne north pier. Engng Jan 28, 1910

**The Tyne as a navigable river** by James Walker. Tyne imp comm 1905 14 p 2 maps

## NEWLYN

**Concrete pier** at Newlyn Harbor, Eng. Eng rec Aug 10, 1907 2-3 p

## NEWPORT

**Alexandra dock extension** at Newport. Engng Jy 10, 24, Aug 7, 14, 1914. 24 p map ill plans

**Dock development at Newport**. Engr Lond Jy 17, 1914 .

## PLYMOUTH

**The improvement** of Plymouth harbor. Engr Lond Feb 25, 1898

## SOUTHAMPTON

**The new deep water dock** at Southampton. Engng Je 9, 1911. 2 1-3 p plan ill

**Port of Southampton** by Mark Meredith. Cassier's mag May, 1912. 15 p

**Report of harbor commission**, 1912. London: Darling & son Ltd 1912

**Southampton**, in Annual report of harbor commissioners of Montreal 1914. 2 1-2 p

**Southampton**, in Report of River committee of London county council. London: Southwood Smith & Co 1907

**Southampton**, in report on physical characteristics, European ports by C. W. Staniford. Pro mem Vol 4. 2 p

**White star docks** by F. E. Shields. Pro inst civ engs 1913-14 paper 4057

## SOUTHBANK

**New graving docks** and shipyard on the river Tees. Engr Lond Oct 18, 1907

## SWANSEA

**New king's dock at Swansea**, Eng by C. van Langendonck. Sci am supp Apr 2, 1910. 3 p ill

**Swansea**, King's dock: hydraulic coal tipping apparatus. Ry news Jan 13, 1912. 3 p ill

## IRELAND

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**The canals and inland navigation** of Ireland. Engr Lond May 12, 1911.  
3000 w

### BELFAST

**New graving dock**, Belfast; mechanical plant and general appliances  
by W. R. Kelly. Engng Aug 16, 1912. 3 p plans (paper Inst of  
mech engs)

### DUBLIN

**Dublin**, in Der Hafenbau, edited by G. Franzius. Leipsig: Wilhelm  
Engelmann 1912. 3 p

**100 ton electric wharf crane**, Dublin harbor. Engng Jan 19, 1906

### GALWAY

**Galway harbor improvements**. Eng Jan 30, 1914. 1-2 p (shows a  
map of the port with proposed improvements)

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## SCOTLAND

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**Fishery harbors of Scotland** by John Taylor. Eng news Dec 22, 1910.  
10 1-2 p ill plans (Aberdeen, Stonehaven, Peterhead and Bughead.)

**Some recently constructed piers** and harbors on the north and west  
coasts of Scotland by J. Barron. Pro inst of civ engs 1889-90 Vol 99.  
4 p

### DUNDEE

**Dundee harbor extensions**. Ry news Apr 6, 1912. 1 p plan

**New wharf at Dundee** by John Thompson. Engr Lond Jy 28, 1905

### GLASGOW

**Clyde navigation**. (general information) 1910 20 p

**Electrical equipment for docks**: with special reference to electrically  
operated coal hoists by Walter Dixon and G. H. Baxter. Engng  
Jan 27, 1911. 7 p ill plans (Rothesay dock, Glasgow, equipment  
fully described)

**Glasgow**, in Annual report of harbor commissioners of Montreal 1914. 3p

**Glasgow**, in European waterways. Pro of the state barge canal terminal  
commission 1911. Albany N. Y: Legislature 1911. 3 p

**Glasgow**, in Report on British and continental ports with a view to the  
development of the port of Montreal and Canadian transportation  
by G. W. Stephens and F. W. Cowie. Montreal 1908. 95 p maps

**Glasgow**, in Report on physical characteristics, European ports by C. W.  
Staniford. Pro mem 1912 Vol 4. 2 p

**Granary at Glasgow harbor.** Engng Oct 30, Nov. 13, 27, Dec. 11, 1914. 18 p ill plans

**History of conversion** of the river Clyde into navigable waterway, and of the progress of Glasgow harbor, from its commencement to present day by J. Deas. Trans am soc civ engs 1893 Vol XXX

**The improvement of the river Clyde** and the harbor of Glasgow by T. Mason. Pro inst civ engs 1914-15. 18 p pl

### GRANGEMOUTH

**Hydraulic plant** at the Caledonian railway company's new dock at Grangemouth. Ir & coal trds rev Jan 31, 1908 (brief description of cranes and coal-hoists)

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## ITALY

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**Construction of harbors** on sandy beaches (Italy) by D. Lo Gatto. Int nav congress 1908. 18 p pl (relates to harbors in Italy)

**Disposizioni principali** nei porti Italiani by C. Verdinois. Monit tec Apr 10, 1915 serial

**I no stri porti** by Domenico Lo Gatto. Riv marit May 1911. 17600 w

**Lavori di ripristino** e di miglioramento in Alcuni tronchi della linea di navigazione Lago Maggiore Milano by E. Sassi. Giornale del Genio civile 1913. 15 p

**Monografia storica dei porti** dell 'antichita nella penisola Italiana Ministero della marina, comp. Rome 1905. 398 p ill pl map

**New works in the seaports of Italy** by C. F. B. E. Coen Cagli. Int nav congress 1908. 22 p

**Le opere marittime piu adatte** ai porti Italiani by L. Luiggi. Giornale del Genio civile 1909. 31 p ill

**Les ports maritimes d'Italie** by Baron Quinette de Rochemont and G. de Joly. An de ponts et chaussées 1906 Part 2. pls

**Works for the improvement** of navigable entrances by Luigi Luiggi. Trans int engng congress 1915. San Francisco: Neal pub co 1916. 31 p (describes entrances to Italian harbors)

### CORSINI

**Il porto-canale Corsini** by M. Perilli. Giornale del Genio civile 1909. 21 p diagrams ill maps

### GENOA

**Arredamento della calata chippella** nel porto di Genoa by L. Biondi. Giornale del Genio civile 1909. 10 p ill

**Concrete piers**, port of Genoa. Engng May 20, 1910. 1 1-2 p ill plans

**Construction of the outer moles** of ports by Oddone Bernardini. Int nav congress 1905. 25 p pl

**Different systems of administration** and operation for ports: from the point of view of Italian legislation as it concerns the autonomy of the port of Genoa by Luigi Lampugnani. Int nav congress 1905. 24 p pl

**Genoa**, in Annual report of harbor commissioners of Montreal 1914. 4 1-2 p

**Genoa**, in Der Hafenbau, edited by G. Franzius. Leipsig: Wilhelm Engelmann 1912. 3 p

**Genoa harbor works**. Engng Jan 19, 1906. 2 p ill

**Hydraulic installations** in the port of Genoa by L. Luiggi and E. Borgatti. Pro of int maritime congress Sect 11 London: Unwin Bros. 1893. 11 p map

**La futura sistemazione** del porti di Genova by Mattia Giavatto. Riv marit Dec 1914. 50 p pl

**New harbor works at Genoa** and Savana by Oddone Bernardini. Int nav congress 1905. 11 p pl

### **LIVORNO (OR LEGHORN)**

**I Lavori di ampliamento** del porto di Livorno. Giornale del Genio civile 1910. 7 p

### **NAPLES**

**Method of constructing a breakwater** at Naples, using concrete hollow blocks. Engng contr Je 12, 1912. 2 1-2 p ill

**La sistemazione** della bocca del porto di Napoli by Mattia Giavotto. Riv Marit Jy Aug 1915. 62 p ill

**Works going on** for the construction of a new breakwater in the port of Naples by I. Ingles and Luigi Luiggi. Int nav congress 1912. 14 p pl

### **PALERMO**

**Sulla sistemazione** del porto di Palermo by C. Verdinois. Riv marit Oct 1910. 7000 w ill

### **ROME**

**Roma porto de mare** by Paolo Orlando. Rome 1904. 24 p

**Roma porto di mare** e la navigazione interna sul Tevere e sul Nara by Cesare Verdinois. Rome 1906. 7 p

### **SAVONA**

**The coaling machinery** at Savona harbour by F. Collischom. Electn Jan 17, 1908. (Savona harbour is equipped with the Hunt system of movable elevators and a cable railway)

**New harbor works** at Genoa and Savona by Oddone Bernadins. Int nav congress 1905. 11 p pl

### **VENICE**

**Dredges of great power:** for rock removal under water by Giovanni Fossataro. Int nav congress 1912

**La Laguna di Venezia** ed i suoi porti by E. Cuccini. Giornale del Genio civile 1912. 56 p ill maps

**Port channels of Venice** kept clear by tidal movement properly controlled by Luigi Luigi. Eng rec Nov 20, 1915

**Working of the Port of Venice** by H. Gullini. Int nav congress 1905. 32 p pl

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## NETHERLANDS

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**Dutch fishery ports** by J. M. Bottemanne and H. Van Oordt. Int nav congress 1908. 38 p pl

**Navigazione interna** . . . Belgio by C. Valentini. Giornale del Genio civile 1909. 27 p ill maps

**Report of consular officers** of the U. S. (Dept of State) Washington: Natl waterways commission document No 7, 1909

**Reports on more recent work** . . . by V. d Blocq van Kuffeler. Int nav congress 1912. 25 p pl

**The waterway from the German Rhine** through the Netherlands to the North Sea, along Rivers Rhine, Waal and Nieuwe Maas by C. A. Jolles. Trans int engng congress 1915. San Francisco: Neal pub co 1916. 18 p map

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## BELGIUM

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**Belgium**, in European waterways. Pro of the state barge canal terminal commission 1911. Albany N. Y: Legislature 1911. 8 1-2 p

**Les installations maritimes Belges.** Brussels: Administration des ponts et chaussées 1900. 105 p

**Navigazione interna** . . . Belgio; by C. Valentini. Giornale del Genio civile 1909. 27 p ill maps

**Public works in Belgium.** Seaports. Int nav congress 1910

**Report of Consular officers** of the U. S. (Dept. of state) Washington: Natl waterways commission document No 7, 1909

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## ANTWERP

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**Antwerp**, in Annual report of harbor commissioners of Montreal 1914. 2 1-2 p

**Antwerp**, in Der Hafenbau, edited by G. Franzius. Leipsig: Wilhelm Engelmann 1912. 4 p

**Antwerp**, in European waterways. Pro of the state barge canal terminal commission 1911. Albany N. Y: Legislature 1911. 8 1-2 p map

**Antwerp**, in Report of river committee of London county council. London Southwood Smith & Co 1907

**Antwerp**, in Report on British and continental ports with a view to the development of the port of Montreal and Canadian transportation by G. W. Stephens and F. W. Cowie. Montreal 1908. 98 p maps

**Antwerp**, in report on physical characteristics, European ports by C. W. Staniford. Pro mem Vol 4. 3 p

**Bruges ship canal** and new works at Ostend and Antwerp by Vernon Harcourt. Pro inst of civ engs 1898-00 Part 2

**The extension** of the port of Antwerp. Engr Lond Mar 11, 1898. 1 p

**Freight transferring machinery** at Antwerp. Int mar Engng Oct 1911

**The improvement** of the port of Antwerp. Eng rec Je 10, 1911. 1 p

**Improvement to the port** of Antwerp. Engr Lond May 10, 1912. 1 p maps

**Port administration** and harbor facilities. A symposium by H. R. Ringe. Annals am acad Mar 1907. 43 p

**The port of Antwerp.** Engr Lond Je 26, 1914. 2 p ill (History and general description of the harbor and its equipment.)

**I porti d'Anversa e di Marsiglia** by G. C. Monticelli. Giornale de Genio civile 1911. 19 p ill

## **BRUGES**

**Bruges ship canal** and new works at Ostend and Antwerp by Vernon Harcourt. Pro inst civ engs 1898-00. (pt 2)

**The new harbor works** at Bruges. Eng mag Jy 1907. 2 p

**Zeebrugge and Bruges.** Engr Lond Jy 26, 1907. 2 1-2p map plans (see also Pro 8th int congress on nav 1900. Paris)

## **BRUSSELS**

**Brussels**, in European waterways. Pro of the state barge canal terminal commission 1911. Albany N. Y.: Legislature 1911. 3 p ill

## **GHENT**

**Terneuzen canal** and the port of Ghent. Int nav congress 24 p map

## **OSTEND**

**Bruges ship canal** and new works at Ostend and Antwerp by Vernon Harcourt. Pro inst of civ engs 1898-99 (pt 2)

**Maritime installation** of the port of Ostend by P. J. van der Schueren. Int nav congress 1905. 18 p pl

## **ZEEBRUGGE**

**Zeebrugge and Bruges.** Engr Lond Jy 26 1907. 2 1-2 p map plans (see also Pro 8th int congress on Nav 1900 Paris)

## HOLLAND

- Harbor development in Holland** by W. Wortman. Trans am soc civ engs 1905 Vol LIV Part A
- Holland**, in European waterways. Pro of the state barge canal terminal commission 1911. Albany N. Y: Legislature 1911. 6 p
- Holland develops new types** of shore protection. Eng rec Jan 22, 1916. 4 cols ill
- Natural waterways**, a review of their development in the Netherlands by A. B. Marinkelle. Trans am soc civ engs 1905. Vol LIV Part D
- Notes on dikes in Holland** by W. Starling. Trans am soc civ engs 1892 Vol XXVI
- The reclamation of the Zuider Zee** by J. M. Figee. Eng news Oct 15 1914. 2100 w
- The winning of the Costals lands** by A. E. Carey. Pro inst civ engs 1910-11 Paper 3885. 32 p

## AMSTERDAM

- Amsterdam**, in European waterways. Pro of the state barge canal terminal commission 1911. Albany N. Y: Legislature 1911. 6 p map ill
- Ports of Ymuiden and Amsterdam** by Thouvent. Pro inst civ engs 1911-12 Vol 87. 1 p

## DELFTZYL

- Cylindrical foundations** for a quay wall in harbor of Delfzyl by W. F. Druyvesteyn. Trans am soc civ engs 1905. Vol LIV Part E

## ROTTERDAM

- Le port de Rotterdam** by Victor Cambon. Nature Apr 24, 1915. 2500 w ill
- The port of Rotterdam** by the Corporation of Rotterdam. Rotterdam 1912
- The port of Rotterdam** by H. A. Van Ysselsteyn. Rotterdam: Nijgh & Van Ditmar pub co 1908
- Reinforced concrete caissons** and dock walls at Rotterdam, Holland. Eng news Jan 17, 1907. 1-4 p ill
- Rotterdam**; by Thouvent. Pro inst civ engs 1911-12. Vol 87. 1 p
- Rotterdam**, in Annual report of harbor commissioners of Montreal 1914 4 p
- Rotterdam**, in European waterways. Pro of the state barge canal terminal commission 1911. Albany N. Y: Legislature 1911. 15 p map
- Rotterdam**, in Report of River committee of London county council. London: Southwood Smith & Co 1907
- Rotterdam**, in Mechanical equipment of ports by Wouter Cool and A. de Kanter. Int nav congress 1912. 25 p pl

**Rotterdam**, in Report on physical characteristics, European ports by C. W. Staniford. Pro mem 1912 Vol 4. 4 p

**Rotterdam**, three new harbors. Atlantic deeper waterways ass'n bulletin Je 1912.

### **YMUIDEN**

**Ymuiden**, in Der Hafenbau, edited by G. Franzius. Leipsig: Wilhelm Engelmann 1912. 4 p

**Ports of Ymuiden and Amsterdam** by Thouvent. Pro inst civ engs 1911-12 Vol 87 1 p

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## **PORTUGAL**

**Common roads**, railways and river communications in Portugal by F. A. Pimental. Trans am soc civ engs 1893 Vol XXIX

**Ports de la cote occidentale du Portugal** by J. Cecilio da Costa. Berlin: Int nav congress 1902. 11 p pl

**Travaux les plus recents** exécutes dans les principaux ports littoraux ou maritimes du Portugal by J. V. M. Guerreiro. Paris: Int nav congress 1900. 12 p ill 8 pl

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## **ROUMANIA**

### **CONSTANTZA**

**The harbor of Constantza** by Alfred Gradenwitz. Sci am sup Aug 20, 1910. 2 p

**The new harbor works** at Constantza on the Black Sea by F. Bock. Deutsche Bau 'Mar 31, 1911

**New harbor works at Constantza** Roumania by F. Bock. Cassier's mag July 1910. 8 p

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## **RUSSIA**

**Fishery harbors and harbors of refuge** by Silitch. Int nav congress 1908. 13 p map

**Inland river ports in Russia** by M. Tsionglinsky. Int nav congress 1911. 14 p

**Most important Russian ports** on the sandy coasts of Baltic by A. Ivanina and W. Ekerle. Int nav congress 1908. 25 p pl

**The natural waterways of Russia** by N. P. Pouzirevsky. Int engng congress 1915. San Francisco: Neal pub co 1916. 22 p

**Ports de commerce de la Russie** by M. G. de Joly. An de ponts et chaussées 1910-11. 8500 w ill

### **ARCHANGEL**

**Activities at a war port** (Archangel, Russia.) Eng news Nov 11, 1915. 1-2 p

### **LIBAU**

**Most important Russian ports** on the sandy coasts of Baltic by A. Ivanina and W. Ekerle. Int nav congress 1908. 25 p pl

### **MURMAN**

**Port of the midnight sun.** Independent May 22, 1916 map

### **ODESSA**

**Odessa**, in Mechanical equipment of ports . . . grain trade by G. Spalving. Int nav congress 1912. 17 p pl

### **PETROGRAD**

**Account of the works** most recently carried out . . . St. Petersburg by N. Guersevanoff Jr., V. Dmitrieff and F. Dratch. Int nav congress 1908. 13 p pl

### **ROSTOV**

**Rostov**, in Lighter trade on the sea of Azov. Berlin: Int nav congress 1902. 18 p pl

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## **SPAIN**

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**Coaling crane** for the ferro-carril de Langreo, Spain. Engng Mar 13, 1911. 1 1-2 p ill

**Floating crane for Spain.** Engr Lond Aug 11, 1911. 1-2 p ill

**Notes on the ports of Spain** by Luis Molina and F. G. Avenal. Int nav congress 1908. 25 p pl

### **BARCELONA**

**Barcelona**, in Der Hafenbau, edited by G. Franzius. Leipsig: Wilhelm Engelmann 1912. 2p

**Nuove opere del porto di Barcellona.** Giornale del Genio civile 1909. 5 p

**Port administration** and harbor facilities, Barcelona by C. L. Jones.  
Annals of am acad Mar 1907. 3 p

**Travaux recents** effectues dans les ports de Barcelona et de Bilbao;  
by P. G. Faria. Int nav congress 1900. 25 p 3 pls

### **BILBAO**

**Memoria . . . y puerto de Bilbao.** Bilbao de Obras de Puerto, 1897-1914  
36 v map tab

**El puerto de Bilbao** by Evaristo de Churruca. Bilbao 1910. 151 p ill  
pl maps

**Travaux recents** effectues dans les ports de Barcelona et de Bilbao by  
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### **VALENCIA**

**Memoria sobre el estado y progreso de las obias durante los annos 1913-14.** Junta delobras dep Puerto Valencia 1912-15. 4 vols ill pl

**Les travaux du port de Valencia** Espagne. Genie civil Aug 10, 1912.  
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**Important harbor construction** in Sweden. Engr Lond Nov 19, 1815-  
1-6 p

**Report on the recent works** in the most important Swedish sea ports by  
Albert Lundberg and Wollmar Fellenius. Int nav congress 1912.  
30 p pl

### **GOTHENBURG**

**Gothenburg**, in Report on the recent works in the most important  
Swedish sea ports by Albert Lundberg and Wollmar Fellenius. Int  
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### **STOCKHOLM**

**Stockholm**, in Report on the most recent works . . . Swedish sea ports; by  
Albert Lundberg and Wollmar Fellenius. Int nav congress 1912.  
30 p pl

### **NARVIK**

**The steel ore dock** at Narvik by John Birkinbine. Ir age Jan 9,  
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**Canada**, (for Int nav congress) Dept marine and fisheries Ottawa 1912

**Canadian ports**, by F. W. Cowie. Pro amer assoc of port author 1916

**Directory** of principal Canadian ports and harbors. Dept of Marine and fisheries Ottawa 1913.

**Pacific ports**, in Annual report of harbor commission of Montreal 1915 Montreal Canada

**Port directory** of principal Canadian ports and harbors by Dept of marine and fisheries. Ottawa: Govt printing bureau 1910

**Les ports maritimes** de l'Amerique du Nord sur l'Atlantique by E. T. Quinette de Rochemont and H. Vetillart. Paris 1898-1904. 4 vols ill pl tab Contents: Pt 1—Les ports Canadiens. Pt 2—Regime administratif. Pt 3—Les ports des Etats-Unis. Pt 4—Atlas.

**Reports** (annual) of Department of marine and fisheries. Ottawa 1862 1904 (30 vols ill plates maps plans charts)

**Review of Canadian port development.** Lessons applicable to Pacific coast ports by P. P. Witham. Ry & mar news Mar 1, 1914

**Transportation problem** in Canada and Montreal harbor; by F. W. Cowie. Pro inst civ engs 1914-15

### BRITISH COLUMBIA

**British Columbia**, in Terminal facilities of North Pacific ports. Seattle: Terminal publishing co 1914

### ESQUIMALT

**Esquimalt** in appendix of Annual report of harbour commissioners of Montreal 1915. 1 p

### FORT WILLIAM

**Fort William:** Pro amer assoc of port author 1914. 1-4 p

**Fort William** by H. C. Gahn. Pro amer assoc of port author 1914. 1-2 p ill

**Dock design** and construction in Fort William and Port Arthur by W. C. Sample. Can eng May 1, 1913. 5 1-2 p plans

**Grain elevator** of the Grand Trunk Pacific ry at Fort William Canada. Eng news Feb 23, 1911. 2 2-3 p ill plans

### HALIFAX

**Cellular type** of quay wall at Halifax terminals compared with other designs. Eng rec Feb 12, 1916. 7 1-2 cols ill

**Concreting plant** for Halifax ocean terminal work. Eng news Feb 10, 1915. 5 p ill

**Halifax ocean terminals.** Eng news Dec 9, 1915. 5 1-2 p map plans

**Intercolonial harbor terminals** at Halifax by E. A. Saunders. Int mar engng Feb 1913 Vol 18 2 p ill

**Intercolonial railway pier** No 2 at Halifax by A. F. Dyer. Eng news Je 24, 1915. 6 1-2 p ill

**Large reinforced concrete pier** at Halifax. Eng rec Je 53, 1914. 3 p ill plans

**Large volume of concrete** handled in small batches at Halifax ocean terminals. Eng rec Jan 29, 1916, 3 2-3 p ill

**Ocean terminals.** Engng-Contr Jan 6, 1915

**Ocean terminals** under construction expected to make Halifax an important port. Eng rec Jan 22, 1916. 11 cols ill

**Railway construction** for new Halifax ocean terminals. Eng news Jan 24, 1916. 1 1-2 p ill

**Report to Ministers** of railways and canals by F. W. Cowie. Ottawa 1913. (on new terminals, consulting engineer's report, elaborate.)

**Subaqueous excavation** at the Halifax ocean terminals. Eng news Feb 3, 1916. 2 p ill

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**Hamilton** by H. E. Waterman. Pro amer assoc of port author 1914. 1 p

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**Bidding for the transcontinental trade;** how Montreal is rebuilding her harbor by E. Hungerford. Harper's weekly Jy 27, 1912. 1 p

**Grain transportation,** elevation and rates by W. G. Ross. Montreal. (Report to Harbors commission)

**Harbor development** and improvement at Montreal, Canada. Eng news Nov 9, 1911. (Includes history ship's canal harbor, new piers and freight sheds, grain elevators, misc. facilities etc) 5 2-3 p ill maps and plans

**Montreal** by M. P. Fennell. Pro amer assoc of port author 1914. 1 p

**Port of Montreal** by A. O. Powell. Pac builder and engr Je 1, 1912. 1p

**Port organization and administration** by W. G. Ross. Pro amer assoc of port author 1916

**Progress of Montreal** harbor development. Can eng Je 17, 1915. 4 p ill map

**Report on British and continental** ports with a view to the development of the port of Montreal and Canadian transportation by G. W. Stephens and F. W. Cowie. Montreal 1908. 95 p maps

**Reports** (annual) of the harbor commissioners. Montreal (1908 contains report on European ports. 1914 contains report on European ports. 1915 contains report on western harbors of Canada and United States)

**75-ton steam floating crane for Montreal.** Engng Sept 17, 1909 (describes a mobile crane for harbour at Montreal) 2 1-3 p ill

**Special acts and by-laws.** The harbor commissioners. Montreal.

**Transportation problem** in Canada and Montreal harbor by F. W. Cowie. Inst of civ engs 1914-15. 117 maps ill

**Works of Canadian Vickers Ltd** at Montreal. Engng Feb 5, 1915. 7 p ill (Dry dock and ship repair works)

## PORT ARTHUR

**Dry dock at Port Arthur** Ontario Canada by A. V. Powell. Eng news Nov 16, 1911. 2 1-2 p

**Dock design and construction** in Fort William and Port Arthur by W. C. Sample. Can eng May 1, 1913. 5 1-2 p plans

**Port Arthur.** Pro amer assoc of port author 1914. 1-4 p

**Port Arthur** by H. C. Gahn. Pro amer assoc of port author 1914. 1-2 p ill

**Port Arthur,** in Ports of the United States by G. M. Jones. Washington: Govt printing office 1916. 5 p

**Port Arthur** reinforced concrete ore loading dock. Eng rec Je 8, 1912. 1 1-2 p ill

## PRINCE RUPERT

**General review** of North Pacific ports including Seattle, Tacoma, Vancouver, Victoria, Prince Rupert, Alaska and Columbia River ports. Ry & mar news Feb 1, 1915. 1-7 p

**Marine terminal** of the Grand Trunk Pacific ry Prince Rupert by F. E. Kirby and W. T. Donnelly. Engng Dec 15, 1911. 3 p plans (Abstract paper for soc of nav arch and mar engrs)

**Marine terminal** of the Grand Trunk ry by F. E. Kirby and W. T. Donnelly. Eng news Jan 4, 1912. 3 p ill

**Millions to be expended** by British Columbia cities in railroad and port improvements. Ry & mar news Oct 1, 1913. 5 p ill

**Prince Rupert** in appendix of annual report of Harbor commissioners. Montreal 1915. 5 1-2 p ill

**Prince Rupert's new dock.** Ry & mar news Mar 15. Apr 1, 1913. 4 1-2 p

## QUEBEC

**By-laws.** Harbor commissioners. Quebec 1914.

**The port of Quebec** by E. D. Chambers. Quebec: Harbor commissioners 1890

**Quebec** by Raoul Renault. Pro amer assoc of port author 1914. 2-3 p

**Quebec** on methods adopted in carrying out of docks and harbor work at Quebec by W. Pilkington. Pro inst civ engs 1899-00 Vol 139 8 p

**Reports** of harbor commissioners. Quebec

## TORONTO

**New harbor** and waterfront works at Toronto Ont. Eng news May 29, 1913. 3 p maps (plans of developments)

**Proposed plans for waterfront** and harbor development at Toronto Canada. Engng-contr Jan 8, 1913. 2 p

**Report** by harbor commissioners. Toronto 1912

**Toronto harbor.** Pro amer assoc of port author 1914. 1-4 p

**Toronto** by H. C. Gahn. Pro amer assoc of port author 1914. 1 p ill

**Toronto** by A. C. Lewis. Pro amer assoc of port author 1914. 2 p

**Toronto** Extensive harbor developments about to be undertaken. Eng news May 29, 1913. 3 1-4 p ill plans

**Toronto harbor improvement project.** Can eng Je 10, 1915. 4 p ill map

**Toronto harbor improvements** are most comprehensive on American continent. Eng rec Sept 19, 1914. 1 p (including general map of the harbor)

**Toronto waterfront development 1912-1920** by harbor commissioners. Toronto 1912

### VANCOUVER

**General review** of north Pacific ports, including Seattle, Tacoma, Vancouver, Victoria, Prince Rupert, Alaska and Columbia river ports. Ry & mar news Feb 1, 1915. 1 1-2 p

**Government wharf at Vancouver.** Can eng Apr 15, 1915. 2 p plans

**Millions to be expended** by British Columbia cities in railroad and port improvements. Ry & mar news Oct 1, 1913. 5 p ill

**The port of Vancouver** and its organization in Report of the 2nd annual meeting of the Pacific coast association of port authorities 1914 by S. McClay. California: California state printing office 1915. 5 1-2 p

**Terminal improvements** of the Canadian Pacific railway at Vancouver, B. C. Eng news Feb 18, 1915. (Gives layout of passenger terminal and ocean pier Canadian Pacific railway Vancouver) 2 p ill

**Vancouver** by E. G. Matheson. Pro amer assoc of port author 1914. 1 1-2p

**Vancouver** in appendix of Annual report of harbor commissioners of Montreal 1915. 9 p ill

**Vancouver harbor.** Pro amer assoc of port author 1914. 1-4 p

**Vancouver terminals** nearing completion C. P. R. Ry & mar news May 1, 1914. 1-2 p

### VICTORIA

**Concrete cribs** used successfully in dock construction. Eng rec Aug. 7 1915. 2 1-2 p ill

**General review** of north Pacific ports, including Seattle, Tacoma, Vancouver, Victoria, Prince Rupert, Alaska and Columbia river ports. Ry & mar news Feb 1, 1915. 1-6 p

**Harbor improvement progress** at Victoria. Ry & mar news Feb 15, 1913. 1 1-2 p

**The harbor of Victoria and Vancouver** British Columbia by H. C. Estep. Mar rev Sept 1909. 8 p

**Millions to be expended** by British Columbia cities in railroad and port improvements. Ry & mar news, Oct 1, 1913. 5 p ill.

**2500-ton concrete cribs** are built and launched in a "shipyard". Eng rec Jan 15, 1916. 5 cols ill

**Victoria**, in appendix of Annual report of harbor commissioners of Montreal 1915. 6 p ill

**Victoria harbor.** Pro amer assoc of port author 1914. 1-4 p

**Victoria rushes work** on port improvements. Ry & mar news Apr 1, 1914. 1 p

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**Forest exports** of Mexican gulf ports by L. Palmer. Washington: Nation's business Mar 19, 1913. 1-3 p

**Hand book on Mexico.** Washington: Pan-American union (gives a complete description of the ports of the Republic of Mexico)

### COATZACOALCOS

**Tehuantepec railroad and terminal ports.** (Salina Cruz and Coatzacoalcos.) Engr Lond Feb 1, 1907. 3 p plans

### MANZANILLO

**Improvement of the port of Manzanillo.** Eng news Feb 16, 1905. 2 p

**Manzanillo, the new gateway to Mexico** by American review of reviews Feb 1911. 2 p ill

**Port of Manzanillo.** Washington: Bul Pan-Amer Union Oct 1906 and Dec 1908

**The port of Manzanillo** by H. H. Dunn. Cassier's mag Jan 1911. 9 p

**Preliminary and final reports** relative to the improvement of the port of Manzanillo by E. K. Smoot. Mexico 1900. 84 p

### SALINA CRUZ

**The harbor improvements at Salina Cruz.** Eng rec Mar 30, 1907. 2 p

**Port works at Salina Cruz.** Washington: Bul Pan-Amer Union Jy 1906

**Tehuantepec railroad and terminal ports.** (Salina Cruz and Coatzacoalcos.) Engr Lond Feb 1, 1907. 3 p plans

### TAMPICO

**Harbor works at Tampico** by E. L. Corthell. Pro inst of civ engrs Vol 125, 1895

**Harbor work at Tampico**, summary of lecture by E. L. Corthell. Eng rec Jy 27, 1901. 1 p

**Steel and concrete wharf at Tampico.** Eng rec Apr 8, 1905. 2 1-2 p ill

**Tampico harbor works . . .** by E. L. Corthell. New York 1904. 23 p  
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**Additional facts on wharfage,** storage and port charges by H. M. Chitenden. Ry & mar news May 1, 1915

**Advanced methods of handling** the heavy commodities as exhibited in ports of the Great Lakes' system of North America by J. A. Sullivan. Int nav congress 1905 17 p ill

**American inland waterways** by Herbert Quick. (their relation to railway transportation and to the national welfare; their creation, restoration and maintenance) 1909 241 p

**American marine** by W. W. Bates. 479 p (the shipping question in history and politics)

**American port and harbor work.** Eng news May 21, 1914. 4 p

**Analysis of the present foreign trade** of the United States by Directors of the Port of Boston. Boston: Wright & Potter Printing Co 1916

**Analytical and topical index** to the reports of the Chief of Engineers, United States army 1866-1900. Compiled under the direction of Lieut. Colonel C. R. W. Raymond by John McClure. Washington: Govt printing office 1903 3 vols 57th Congress 2d Session House Document No 439

**Annual list** of merchant vessels of the U. S. with official numbers and signal letters and lists of vessels belonging to the U. S. Govt U. S. Bureau of Navigation.

**Army engineer and river improvement** by J. M. Dickinson. Pro mem Vol 2, 1910. 8 p

**Artificial waterways in U. S.** by W. L. Sibert. Trans am soc civ engs 1905 Vol LIV Part F

**Artificial waterways** which form cut-offs. (Inter-coastal canal) by C. S. Riche. Trans int engng congress 1915. San Francisco: Neal pub co 1916. 15 p map

**Atlantic intercoastal waterway.** Philadelphia: Atlantic deeper waterways assn 1914 (official survey lines and present status of work)

**Blue book of American shipping.** (marine and naval directory of the U. S. statistics of shipping and ship building in America) Annual

**Catalogue of charts,** coast pilots and tide tables. Washington: Coast and Geodetic Survey 1880-1914. 5 vols ill

**Chicago's all water route** to the Gulf. Ry & Mar news July 1, 1915 1 1-2 p

- Coal piers on the Atlantic seaboard** by J. E. Greiner. Trans am soc civ engs Dec 1914. Paper 1291 (details of coal piers and their equipment) 49 p
- Comparison of East and West** transportation facilities by P. P. Whitham. Ry and mar news Aug 1, 1915
- Decline of water transportation** on western rivers by Col C. McD. Townsend. Pro Mem Vol 2, 1910. 9 p
- Direction des routes**, de la navigation et des Mines. La navigation aux Etats Unis. Renseignements historiques, financiers, descriptifs et statistiques sur les ports et les voies navigables 1892. In report of Ministere des Travaux Publics Paris: 1892. 544 p
- Federal reporter** No 215 p 576. (abstract of Greenleaf Johnson Lumber Co. case on rights of War Department to change harbor lines and cause structures to be removed without compensation)
- The foreign commerce** and navigation of the U. S. for year ending June 30, 1912. Washington: Govt printing office 1913
- General review** of North Pacific ports, including Seattle, Tacoma, Vancouver, Victoria, Prince Rupert, Alaska and Columbia River ports. Ry & mar news Feb 1, 1915. 1 1-4 p
- General rules and regulations** prescribed by the Board of Supervising Inspectors as amended by U. S. Steamboat-Inspection Service 1904-09
- The Great Lakes (1911)**. Int nav congress 1912.
- Great Lakes** (Survey of Northern and Northwestern Lakes) by Lake Survey Office of War Department. Detroit 1915 (Contains description of harbors)
- The Great Lakes** and Atlantic harbors. Lessons applicable to Pacific coast ports by P. P. Whitham. Ry & mar news Jan 1, 1914
- Harbors on Lake Erie** and Ontario by D. C. Kingman. Trans am soc civ engs 1905 Vol LIV Part A
- Harbors on Lake Superior** by D. DuB. Gaillard. Trans am soc civ engs 1905. Vol LIV Part A
- Harbors on Pacific coast** by Maj. W. W. Harts. Pro Mem 1911 Vol 3. 23 p
- Improvements by the government** on the Pacific coast by B. W. DeCourcy. Trans am soc civ engs Oct 1891. 4 p
- Intra coastal canal system** for Atlantic seaboard. Sci am Sept 6, 1913. 2 p map
- Intra coastal waterway 1912**. House of Representatives. Doc No 391—63rd Congress. Wash: Govt. printing office 1912 (Boston to Beaufort N C)
- Lake Ontario harbors for canal commerce** by W. P. Judson. Oswego N Y 1902. 9 p folded profile
- Lake port** by H. C. Gahn Pro amer assoc of port author 1914. 26 p ill
- Laws of the U. S.** relating to the improvement of rivers and harbors from 1790 to 1907. Wash: Govt printing office 1907. 2 vol

- Letters from various port authorities**, setting forth the current name of port officials, terms of appointment and salaries, ownership of wharves and piers, expenditures for public improvements, current appropriations and brief statement relative to the port. Pro amer asso of port author 1914. 38 p
- Marine directory of the Great Lakes** by F. W. Green. Cleveland: Mitchell & Co 1914. 6th ed
- Mississippi water terminals.** Eng news Feb 24, 1916. 1-4 p (statistics on Minneapolis Davenport Muscatine Hamilton Kansas City Baton Rouge New Orleans St Paul Des Moines Keokuk Peoria Quincy St Louis East St Louis)
- Movement of iron ore** on Great Lakes by A. J. Mason. Journ w soc engs Apr 1904. 14 p ill diagrams
- Natural waterways** in the United States by W. W. Harts. Trans int eng congress 1915. San Francisco: Neal pub co 1916. 50 p ill
- La navigazione interna** negli Stati Uniti d'America by C. Valentini. Giornale del Genio Civile 1913. 17 p tables
- Notes on docks and harbors** by Luther Wagoner. Trans am soc civ engs 1909 Vol LXII
- Notes on export situation** by directors of the Port of Boston. Boston Apr 15, 1913
- Notes on improvements** of the harbors and connecting waters of the Great Lakes. Int nav congress 1912
- Notes on the improvement** of river and harbor outlets in the United States by D. A. Watt. Trans am soc civ engs 1905. Vol 55
- Ocean and inland water transportation** by E. F. Johnson. New York: Appleton
- Ownership of harbors** and waterway terminals in the United States by H. K. Smith. Eng news Oct 6, 1910
- Pacific ports** in Annual report of harbor Commission of Montreal 1915.
- The Panama Canal** and the Pacific coast edited by G. M. Sheppard. New York: W. B. Dana Co 1914. 176 p ill (contains articles on Pacific coast resources and development etc)
- The Panama Canal** and the ports of the Pacific by A. J. Quigley. Eng Mag Feb Mar Apr 1915. (On the ports of San Diego Los Angeles San Francisco and the harbors of the northern Pacific coast.)
- Port development of coast cities** by P. P. Whitham. Ry & mar news Apr 1, 1915
- Port improvements along Mississippi, Ohio Rivers.** Eng news Je 3, 1915. 3 p
- Port improvements on the Atlantic coast.** Lessons applicable to Pacific coast ports by P. P. Whitham. Ry & mar news Feb 1, 1914
- Port problems of Great Lakes.** Mining rev Dec 1915
- Port terminals on Pacific coast.** W engng Apr 1915

- Les ports maritimes de l'Amerique du Nord sur l'Atlantique** by E. T. Quinette de Rochemont and H. Vetillart. Paris: V. C. Donod 1898-1904. 4 v ill pl tab Contents: Pt 1—Les ports Canadiens. Pt 2—Regime administratif. Pt 3—Les ports des Etats-Unis. Pt 4—Atlas
- Ports of the Mississippi river system**, in Water terminals Part 111 of report of the Commissioner of Corporations on transportation by water in the United States. Wash: Govt printing office 1910 32 p maps tab
- Ports of Puget Sound** and their development by H. M. Chittenden. Pac builder and engr June 22, 1912 2 p
- Ports of the United States** by G. M. Jones. Wash: Govt printing office, 1916. 431 p maps (covers all ports of the United States which had in the calendar year 1913 a water-borne commerce exceeding 1,000,000 short tons in volume or \$30,000,000 in value.) issued by Department of Commerce as "Miscellaneous Series No 33"—75c
- Proceedings of national rivers and harbor congress** of United States. Wash D. C. Annual
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- Public wharves and terminals.** (Theory of ownership and control of port facilities) by H. M. Chittenden. Ry & mar news May 1, 1912. 4 1-2 p
- Regulations for the government** of assistants on river and harbor works by U. S. Sept Engs 1910. 74 p
- Report** of L. E. Chamberlain and C. H. Hathaway. National rivers and harbors congress 1911. 16 p
- Report** of Chief of Engineers Annual U. S. Dept Engs 1822-date. Wash: Govt printing office.
- Report of Connecticut rivers** and harbors commission to general assembly Hartford 1911. 71 p
- Report of joint committee** on harbors. California: Legislature 1908. 58 p maps
- Report of submerged** and shore lands 1911 to governor of State of Illinois by Legislative Investing Committee. House of Representatives Vol 1-11-111
- Reports of Commissioner of Corporations** on transportation by water. Part I—General condition of transportation by water July 12, 1909 Part II—Water born traffic July 19, 1909 Part III—Transportation by water in U. S. Gives facilities improvements and ownership of harbors Sep 1910 Part IV—Control of water carriers by railroads and shipping consolidations Dec 23, 1912 Wash: Govt printing office 1909
- Reports of New York Produce Exchange.** New York (foreign trade of the various ports etc)
- Rivers and railroads** in the United States by Wm. Harts. Trans am soc civ engs 1915 Paper 1346
- Seacoast harbors in United States** by C. E. Gillette. Trans am soc civ engs 1905 Vol LIV Part A

- Seacoast protection** by J. W. Sanderman. Engng 1899 Vol 87
- Statistical abstract** of the United States. Bureau of Statistics Dep. of Commerce. Washington D. C. 1878-1907
- Survey of American dock development** by G. C. Sikes. Pro national conference on city planning 1911. 12 p
- Terminal facilities** of North Pacific ports. Seattle: Terminal pub co 1914
- Terminals on American inland waterways** by G. C. Huebner. Int nav congress 1912 on Great Lakes terminals, those of the Ohio-Mississippi River system, Erie Canal terminals and cost data for Philadelphia) 9 p
- U. S. coast and geodetic survey** table of depths for channels and harbor. Washington: Govt. printing office 1913 Includes Porto Rico Hawaiian Islands and Philippine Islands.
- United States Coast Pilot**, Atlantic Coast and Pacific Coast. Washington: U. S. Coast and Geodetic Survey
- The United States public works** by W. M. Black. New York: John Wiley & Sons 1895. 265 p maps pls ill (full description of procedure and work carried on by various government departments with laws and regulations therefore)
- Water and terminal facilities.** Reports by U. S. Corps of Engineers. Wash: Govt printing office 1913. 1528 p pl maps
- Water terminals** in the United States and their control by E. S. Bradford. Annals of am acad Sept 1914. 5 p
- Waterfront engineering** in American cities. Eng rec Jy 8, 15, 22, 29 and Aug 5, 1899 8 p
- The waterways of the United States** by A. H. Weber. (actual expenditures and results to navigation and commerce 1910) U. S. Waterways Commission document No 15. 18 p
- Western harbors of Canada** and United States in annual report of harbor commissioners of Montreal 1915.
- Wheat ports of the Pacific coast** by E. S. Holmes. U. S. Agriculture Dept—Yearbook 1901. 13 p

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- Concrete and steel ore dock** having new features in its design by W. E. King. Eng rec Mar 9, 1912. 21-2 p ill

#### ASHLAND

- Ashland**, in Ports of the United States by G. M. Jones. Wash: Govt. printing office 1916. 1 p

#### ASHTABULA

- Ashtabula**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 2 p

**Dry Dock at Ashtabula** by E. C. Bowen Jr. Eng news Mar 14, 1912.  
5 p ill

**New ore and coal** handling docks of the Penni Co at Ashtabula Ohio.  
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**Steel and concrete dock wall** by Charles Benham. Eng news May 18,  
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**Astoria**, in Pacific ports by H. M. Chittenden. Trans am soc civ engs  
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**Astoria**, by F. J. Walsh. Pro am assoc of port author 1914. 1-2 p

**Dredging the mouth of the Columbia River.** Ry & mar news Dec 1,  
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**Plan of the Port of Astoria.** Report of P. P. Whitham. Astoria Port  
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### ATLANTIC CITY

**Channel and beach maintenance problem** by R. R. Raymond. Eng  
news July 24, 1913. 5 p

### BALTIMORE

**Baltimore** by O. F. Lackey. Pro amer assoc of port author 1914. 1-2 p

**The Baltimore book.** Baltimore: City of Baltimore 1914

**Baltimore** in Ports of the United States by G. M. Jones. Wash: Govt  
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**Baltimore City's new dock system** by O. F. Lackey. Cornell civ engr  
Nov 1910. 15 p plan ill

**Baltimore harbor** by O. F. Lackey. Pro amer assoc of port author  
1914 10 p

**Baltimore's dock construction** as compared with that of other ports;  
by O. F. Lackey. Pro Amer assoc of port author 1913. 23 p ill map

**Baltimore municipal dock improvements** by Raymond Concrete  
Pile Co. New York (pamphlet)

**Baltimore port and terminal advantages.** Baltimore: Municipal factory  
site Commission.

**The Mt. Clare grain elevator**, Baltimore. Eng rec Jy 3, 1909 (contains  
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**Laws relating to Baltimore harbor** by Harbor Board. Baltimore:  
Meyer & Thalheimer 1913. 63 p

**New harbor works at Baltimore.** Engr Lond Jan 29, 1909. 2 p

**New municipal piers in Baltimore harbor.** Eng rec May 8, 1909.  
3 1-4 p ill plans

**Pennsylvania** begins a large coal pier at Baltimore. Eng rec F.b 5. 1916. 1-3 p

**Port of Baltimore** by A. O. Powell. Pac builder and engr Je 15, 1912. 2 p

**Reinforced concrete piers** in Baltimore harbor. Eng news Oct 1, 1908. 3-4 p plans

**Report of Harbor Board.** Annual Baltimore.

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**Bangor.** Wash: Nation's business Mar 19, 1913. 1-12th p

## **BEAUMONT**

**Beaumont** by J. G. Sutton. Pro amer assoc of port author 1914 2 p

**New marine terminals** at Beaumont by H. McL. Harding. Eng news Je 3, 1915. 1 1-2 p ill

## **BOSTON**

**An act** relative to the development of the port of Boston. Chap 748 acts of 1911 State of Mass. (in pamphlet)

**Boston** by E. F. McSweeney. Pro amer assoc of port author 1914. 1 1-2 p

**Boston**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 16 p map

**Boston.** Commonwealth pier No 5. Eng rec Sept 6, 1913. 2 1-2 p plans

**Boston fish pier** by Frederick Roche. Int mar engng Sept 1914. 1 1-2 p ill

**Boston proposes to extend eastward into bay.** Eng rec May 22, 1915 1-2 p map

**Bulkheads for Boston dry dock.** Eng news Nov 26, 1914. 1-2 p ill

**Commonwealth pier.** Munic jour Je 5, 1913

**Construction of largest dry dock.** Eng rec Dec 11, 1915 1-4 p map designs

**Design features** of the Commonwealth Pier No 1, East Boston. Engng contr Aug 19, 1914. 5 1-2 p

**Design for a granite masonry** sea wall at Boston. Engng contr Nov 9, 1910. 1 p

**The development of the port of Boston** by R. E. Barrett. Eng news Apr 2, 1914. 9 p ill (History of the harbor map of the port details of the Commonwealth pier)

**Electrical equipment** of the Boston and Albany's East Boston deep water terminal. Elec wld May 11, 1911. 6 p ill

**An electrically operated grain elevator** and wharf conveyor system at East Boston Mass by Cecil Hodgson. Eng news Apr 6, 1911

- Handbook of the Port of Boston** by Boston Chamber of Commerce  
Boston 1913
- Harbor and terminal improvements** at Boston. Eng news Nov 2,  
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- A large pier with granite walls** Boston. Eng rec Je 10, 1911. 1 p ill
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- New Boston fish pier** by F. W. Hodgson. Eng rec Jy 6, 1912
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- New steamboat piers at Boston** (Commonwealth piers 5 & 6.) Int  
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- Pier 3 of Boston terminal** of Boston & Albany R. R. Eng rec Dec 25,  
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- Port, administration and harbor facilities**, Boston by C. H. Swan.  
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- Port facilities.** Mnfrs rec Nov 11, 1915
- Port of Boston** by Directors of Port of Boston. Boston, 1915.
- Problems of port development** (exhausted) by E. F. McSweeney.  
Boston, 1915.
- Public control of our waterfronts** and the obstacles to be overcome by  
E. F. McSweeney. Pro amer assoc of port author 1915 24 p
- Public improvements** for the metropolitan district by Metropolitan  
improvement commission. Boston, 1909. 318 p maps
- Report 1892-1905-06** by Board of Harbor and land commissioners of  
Massachusetts. Annual. Boston: Wright & Potter Printing co.,  
1894-1907 (13 v pl folded maps folded plans fac-similes tables)
- Report** of (final) Charles River basin commission. 51 p
- Report** of the directors of the port of Boston. annual
- Report to directors of port of Boston** by J. H. Conroy. Boston, 1913  
(on European ports)
- Special reports of the directors** of the port of Boston. Port of Boston  
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- Substructure of pier 4**, Boston terminal, Boston & Albany Railroad.  
Eng rec Jan 29, 1910. 3 p
- Supplementary report** of the Directors of the Port of Boston to the Gen-  
eral Court Mar 31, 1915. Boston: Wright & Potter printing co 1915
- Waterfront engineering** in American cities. (Boston, New York and  
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## BRIDGEPORT

- Bridgeport**, in Ports of the United States by G. M. Jones. Wash: Govt  
printing office 1916 3 p

## **BRUNSWICK**

**Brunswick**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 3 p

**Brunswick**, Ga. outer bay improvement by E. L. Corthell. Washington 1900 20 p

**Concrete pile piers** at Brunswick, Ga. Eng news Dec 20, 1906

## **BUFFALO**

**Breakwater at Buffalo** by Emile Low. Trans am soc civ engs 1904. Vol 52. 141 p ill map

**Buffalo** by H. C. Gahn. Pro amer assoc of port author 1914 3 p ill

**Buffalo**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 10 p map

**Dock construction** in and around Buffalo by S. M. Kielland. Jour assn of engng socs Je 1902. 7 p

**Port administration** and harbor facilities, Buffalo by F. H. Mason. Annals of am acad Mar 1907. 2 p

## **CAPE CHARLES**

**Cape Charles**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 2 p

## **CHARLESTON**

**Charleston**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 7 p

**Charleston**. Wash: Nation's business Mar 19, 1913. 1-4 p

**Improvement** of the harbor of Charleston, S. C. Eng news Dec 26, 1895

**New southern railway** coaling pier at Charleston, S. C. Int mar engng Apr 1915.

**Port regulations**. Charleston: Board of harbor comm Oct 15, 1895

**Rules and regulations** for the port of Charleston, S. C. and acts of the General Assembly creating the Board of Harbor Commissioners and defining their powers and duties.

**Torpedo boat berth** at the Charleston navy yard. Eng news Nov 4, 1915. 1 1-2 p plans

## **CHARLOTTE (ROCHESTER)**

**Charlotte (Rochester)**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 2 p

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**Chicago** by H. C. Gahn. Pro amer assoc of port author 1914. 4 1-2 p ill maps

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**Chicago breakwater extensions.** Eng news Oct 14, 1915. 1 p plan

**The Chicago harbor** by J. M. Ewen. Jour w soc engs Dec 1909. 38 p

**Chicago harbor and subway plans.** Eng news Aug 28, 1913. 1-2 p

**The Chicago harbor problem** by A. Bement, W. L. Abbott and others.  
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**Chicago municipal pier.** Eng news Jy 29, 1915. 5 p ills plans

**Chicago's all water route** to the gulf. Ry and mar news Jy 1, 1915

**Difficult underpinning** and dock work in Chicago. Eng rec Apr 20 1907. 1 p

**Longest municipal pier** in the U. S. Eng rec Je 19, 1915

**Ordinances:** Rules and regulations—Harbor, Harbor master. Bridges. Wharves and Vessels of City of Chicago. Chicago: Dept. of Public Works 1913

**Pier for the outer harbor at Chicago.** Eng news Sept 18, 1913. 1 1-2 p ill

**Port administration** and harbor facilities Chicago by Frederic Rex. Annals of am acad Mar 1907. 6 p

**Preliminary report** of Chicago Railway Terminal Commission, submitted to City Council of Chicago. Chicago Mar 29, 1915

**Report made** in pursuance of the Statue, to the Governor and forty-seventh General Assembly by Submerged and shore lands legislative investigating committee. Springfield 1911 3 vol pl maps

**Report on Chicago dock problem** (special reference to leasing) by G. C. Sikes. Chicago

**Report on dock and pier development,** harbor district No 1 by harbor and subway commission. Chicago 1912. 19 p pl

**A report on the Chicago harbor problem.** Eng news Mar 3, 1910

**Report to the mayor and alderman** of the city of Chicago by Harbor Commission. Chicago 1909. 383 p ills plans. Contains summary of European ports

**Report to the mayor** and the city council of the City of Chicago, regarding proceedings in re-acquisition for public use of certain lake front property. Chicago: Lake Shore reclamation comm 1912

**Reports.** Harbor & Subway commission of Chicago

**South Chicago,** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 3 p map

#### CINCINNATI

**Annual reports** of Cincinnati Chamber of Commerce. (Ohio river commerce.) Cincinnati 1913 and 1914

**Cincinnati,** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 2 p

## CLEVELAND

- Cleveland.** Pro amer assoc of port author 1914. 1 1-3 p
- Cleveland** by H. C. Gahn. Pro amer assoc of port author 1914. 4 1-4 p  
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- Cleveland,** in Ports of the United States by G. M. Jones. Wash: Govt  
printing office 1916. 7 p map
- Annual report** of the Division of Engineering and Construction De-  
partment of Public Service Cleveland 1913.
- Cleveland harbor problems** by E. B. Thomas. Jour of Cleveland eng  
soc J 1915. 30 p ill
- Cleveland.** Ordinances of the City Council Nos 29355-A-A and 25929-  
A-A (under which new piers were built by private capital and city to  
get title.)
- A heavy concrete dock** on the Cuyahoga River at Cleveland. Eng rec  
Apr 3, 1909. 1 1-3 p ill plan
- Improvement** of the Cuyahoga River. Eng news Mar 20, 1913
- Municipal pier.** Mar rev Jy 1915
- Ninth street pier** in Lake Erie. Eng news Aug 5, 1915. 2 1-2 p plans
- Ore dock at Cleveland.** Eng news Feb 22, 1912. 4 p
- A private river** straightening enterprise at Cleveland. (Cuyahoga River.)  
Eng news Jy 2, 1914
- Recent improvements** to the harbor at Cleveland. Eng rec Jan 16  
1909. 1 p
- Reinforced concrete** in ore dock construction. Cement age Mar 1912.  
4 p (details of concrete piles etc)
- Report** of the River and Harbor Committee of Cleveland Chamber of  
Commerce on the application of the Otis Steel Co for authority to  
make a full new harbor. Cleveland Mar 1912
- Report of the River** and Harbor Improvement Committee of Cleveland  
Chamber of Commerce on greater industrial and commercial har-  
bors of greater Cleveland. Cleveland Apr 1911
- Report** of the Special Committee of the Council on the Improvement of  
the Lower Cuyahoga River. Cleveland July 1913. 38 p ill map
- Report** on group plan of public buildings. Cleveland: Chamber of Com-  
merce 1907
- Reports.** The Cleveland Chamber of Commerce
- Reports.** The Cleveland River and Harbor Commission.
- Report** (annual). The city engineer Cleveland
- Report** (annual). The U. S. District Engineers. Wash War Dept
- Summary of port conditions** at Cleveland, Ohio by J. H. Cassidy.  
Pro am assoc of port author 1912. 4 p

## **CONNEAUT**

**Conneaut**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 2 p

## **COOS BAY, ORE.**

**Description of Coos Bay** and the improvements of its entrance by the government by W. H. Harts. Trans am soc of civ engs 1901

## **DETROIT**

**Detroit**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 4 p

**Port administration** and harbor facilities, Detroit by D. F. Wilcox. Annals of am acad Mar 1907

**A reinforced concrete dock** by A. P. Brown. Eng rec May 21, 1910. 1 p

## **DULUTH**

**Duluth**, in port administration and harbor facilities by Alfred McCallum. Annals of am acad Mar 1907. 3 p

**Duluth-Superior** by H. C. Gahn. Pro amer assoc of port author 1914 1 1-2 p ill

**Duluth-Superior**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 6 p map

**Duluth-Superior harbor** by E. D. Peck. Pro mem 1914 Vol 6 (gives breakwaters etc)

**A large coal dock** at Duluth. Eng rec Oct 23, 1909. 3 p ill

**Marquette breakwater** and Duluth ship canal piers. Eng rec Oct 28, 1899 4 p

**Plant and methods** employed in building concrete South pier at Superior entry, Duluth. Annual report of Ch Eng U. S. A. Wash: Govt printing office 1904. Part 4-pg 3779

## **ERIE**

**Erie** by Otto Herbst. Pro amer assoc of port author 1914. 1-2 p

**Erie**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 2 p

## **ESCANABA**

**Escanaba**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 2 p

**A large ore dock** at Escanaba. Eng news Jy 30, 1903. 2 p plans

## **EUREKA**

**Biennial report** Board of State Harbor Commissioners for the port of Eureka. Sacramento, 1911-12. 2 vols ill

## **FAIRPORT**

**Fairport**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 1 p

## **FALL RIVER**

**Fall River**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916 4 p

## **FREEPORT, TEXAS**

**Freeport, Texas**. (new port and railroad terminal on the gulf) by A. W. Davis. Ry & engng rev May 31, 1913. 2 p

## **GALVESTON**

**Galveston** by M. H. Calverby. Pro amer assoc of port author 1914. 1-2 p

**Galveston**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 6 p map

**Galveston harbor**, hearings before Congressional Committee on Rivers and Harbors. Wash: Govt printing office 1914. 11 p

**The Galveston harbor works** by W. J. Sherman. Jour assn engng socs Dec 1896. 11 p

**Handling cotton** with electric freight trucks in Galveston. Int mar engng Mar 1915. 1-2 p cost data

**Rail and water terminals** at Texas City; improvements near Galveston, including new piers, warehouses and grain elevators by H. A. Thomas. Ry age gaz Jy 12, 1912. 3 p

## **GARY, ILL.**

**The contractor's plant** and methods on the harbor work at Gary. Eng rec Aug 17, 1907. 3 p

## **GRAND HAVEN**

**Grand Haven**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 2 p

## **HARTFORD**

**Hartford**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 2 p

**Hartford**. Special report by Rivers and Harbors Commission. Hartford 1910. 3 p

## **HOUSTON**

**Houston**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 5 p

**Houston**. City ordinances creating Board of Harbor Commissioners for the City of Houston.

## **HURON**

**Huron**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 1 p

**New ore unloading plant** at Huron. Int mar engng Feb 1915

## **JACKSONVILLE**

**Jacksonville** by M. Corse. Pro amer assoc of port author 1914. 2-3 p

**Jacksonville**, in annual report of the Chief of Engineers on the improvement of rivers and harbors by W. B. Ladue. Wash: Govt printing office 1914

**Jacksonville**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 7 p

**Jacksonville**. Laws of the State of Florida Special session 1912 Chapter 6415 (no 1) and Chapter 6416 (no 2)

**Municipal port** improvement project. Jacksonville Fla. Eng news Apr 30, 1914. 1-2 p

**Novel bulkhead for wharves** by H. D. Mendenhall. Eng news Oct 21 1915. 2 1-2 p plans

**Report**. Board of Port Commissioners. Jacksonville

**Reports**. Board of Trade. Jacksonville.

**Summary of port conditions** at Jacksonville, Fla by J. G. McGiffen. Pro amer assoc of port author 1912. 2 p

### KANSAS CITY

**Freight handling equipment** at Kansas City municipal wharf. Int mar engng Nov 1913. 3-4 p ill

**The Kansas City municipal wharf** by C. R. Mandigo. Eng news Jan 25, 1912. 3 p

**Operation of Kansas City** municipal wharf by D. R. Mandigo. Eng rec Aug 8, 1914 (describes the wharf equipment, the combined use of locomotive crane and telfer system) 2 p

### KEY WEST

**Wharf at Key West** for submarine mines and quartermaster by Maj. J. R. Slattery. Pro mem 1915 Vol 7. 8 p (detailed plans and cost of reinforced concrete wharf.)

### LORAIN, OHIO

**Coal and ore docks** of the Baltimore & Ohio at Lorain. Ry age gaz Jy 28, 1911. 4 p ill plan

**Lorain**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 2 p

### LOS ANGELES

**Creating a great harbor** for Los Angeles by P. P. Whitham. Ry & mar news Nov 1, 1915

**Harbor development** at San Pedro by G. C. Munoz. Eng rec May 17, 1913. 2 p plans (Construction details of the wharves in the outer harbor of Los Angeles with brief description of whole port)

**Harbor improvement** at San Pedro and Wilmington, California. Eng news Aug 16, 1906. 3 p

**Harbor of Los Angeles** by A. H. Fries. Pro mem 1913 vol 4

**Harbor rules**, regulations and rates by Board of Harbor Commissioners. 1911. 39 p

**Los Angeles** by C. H. Watson. Pro amer asssc of port author 1914. 1 p

- Los Angeles**, in appendix of annual report of Harbor Commissioners of Montreal 1915. 11 p
- Los Angeles**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 9 p map
- Los Angeles**, in the Panama Canal and the ports of the Pacific by A. K. Quigley. Eng mag Feb Mar Apr 1915
- Los Angeles**—a maritime city by J. S. McGroarty and Edwin Schallert. 1910. 16 p ill map
- Los Angeles Harbor** by A. A. Fries. Pro mem 1912 vol 4. 35 p ill
- Los Angeles harbor** by H. Haywood. Pro inst civ engs 1913-14 paper No 4015.
- Los Angeles harbor** and port facilities by Hamilton Higday. Ry. & mar news May 1, 1914. 3 p ill
- Los Angeles harbor** by C. T. Hutchinson. W engng Jan 1914. 17 p ill maps plans
- Los Angeles harbor**, the great artificial port in San Pedro bay by T. E. Gibbon and A. P. Fleming. Pro natl conference on city planning 1911. 7 p
- Municipal wharves** and sheds at Los Angeles. Eng news Apr 29, 1915. 2 p ill plans
- The Port of Los Angeles** by The Board of Harbor Commissioners. Los Angeles: Board of Harbor Commissioners 1915 (Annual report of the Board of Harbor Commissioners; laws, ordinances and rules governing the harbor; port statistics; history; development; tributary territory; present and prospective commerce; and relation to the Panama Canal) 135 p ill
- Present and proposed** improvements at Los Angeles harbor by R. R. Raymond. Pro amer assoc of port author 1914. 10 p
- San Pedro**, the deep water harbor of the city of Los Angeles by J. T. Gaffey 1910. 23 p maps
- Summary** of port conditions at Los Angeles, Cal. by C. M. Gordon. Pro amer assoc of port author 1912. 2 p
- Warehouse** to raise freight within and without. Eng rec Mar 4, 1916. 3-4 col
- What consolidation** means for San Pedro and Wilmington. Report of Consolidation Committee. Los Angeles 1909. 15 p

## LUDINGTON

- Ludington**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 2 p

## MANITOWOC HARBOR

- The improvement** of the Manitowoc harbor. Eng rec Jan 23, 1909. 2 p
- Manitowoc** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 2 p

## MARQUETTE

**Fifty-thousand ton ore dock at Marquette.** Eng rec Jy 6, 1912. 2 1-2 p ill

**Marquette**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 1 p

**Marquette Breakwater** and Duluth ship canal piers. Eng rec Oct 28, 1899. 4 p

## MILWAUKEE

**The improvement of the harbor of Milwaukee.** Eng rec Oct 24, 1908. 3 p ill plans

**Jones Island harbor project** by Isham Randolph. Milwaukee (Report to Common Council)

**Milwaukee** by Herman Bleyer. Pro amer assoc of port author 1914. 1 p

**Milwaukee** by H. C. Gahn. Pro amer assoc of port author 1914. 2 p ill

**Milwaukee** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 7 p map

**Proposed harbor development** at Milwaukee, Wisc. Eng news Apr 14, 1910 1-3 p

**Report of Milwaukee Harbor Commission.** Annual

## MINNEAPOLIS

**Municipal harbor construction** in Minneapolis. Eng news Jy 30, 1914 2-3 p plans. (concrete sea wall)

## MOBILE

**By-laws and rules** adopted by the Mobile Bar Pilot's Association by J. A. Dorgan. Mobile 1910

**Dredges and dredging** in the Mobile district by J. M. Pratt. Pro mem 1912 vol 4. 41 p diagram plans

**Dredges and dredging** in Mobile harbor records and cost of dredge work. Engr-contr Mar 20, 1912. 3 p

**Mobile** by Harry Pillans. Pro amer assoc of port author 1914. 2 p

**Mobile** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 10 p

**Mobile harbor** by C. O. Sherrill. Pro mem 1913 Vol 5. 27 p ill plans

**Mobile**, the gulf city, considered as the gateway to the Panama Canal. Mobile daily item Jan 10, 1912

**Reports.** Board of Commissioners of the City.

**Rules and regulations** for Mobile harbor by T. P. Norville Mobile 1911

**Summary of port conditions** at Mobile, Ala. by Harry Pillans. Pro amer assoc of port auth 1912. 3 p

## MONTGOMERY

**Montgomery terminal** for ocean steamships by H. McL. Harding. Eng news Sept 12, 1912. 2 p ill

**The municipal wharf** at Montgomery Ala by G. C. Scherer. Eng news Jy 14, 1910

## MUSKOGEE

**Method of designing** a reinforced concrete settling basin for Muskogee, Oklahoma water works. Engng-contr Je 12, 1912. 2 1-2 p (full discussion of pressure on concrete bulkhead.)

## NARRAGANSETT BAY

**The Narragansett Bay coal depot** by Augustus Smith. Trans am soc civ engs Dec 1906 (gives details of travelling towers for loading and unloading coal on wharf)

## NEW BEDFORD

**New Bedford**, in Ports of the United States by G. M. Jones. Wash: Govt printing office. 1916 3 p

## NEW HAVEN

**New Haven** by G. E. Verrill. Pro amer assoc of port author 1914. 2 p

**New Haven** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 4 p

**New Haven**, in reports of Connecticut rivers, harbors and bridges commission Hartford 1912.

**Report of Civic improvement commission** by Cass Gilbert. New Haven 1910

**Report on . . . harbor front improvements** by F. L. Ford. New Haven 1912 32 p pl

**Reports.** Chamber of Commerce. New Haven.

## NEW JERSEY

**Brush-and-stone jetties** prove effective at Ventnor City and Longport N. J. by W. I. Risley. Eng rec Je 24, 1916. 7 cols ill

**Development of port facilities** on New Jersey side of New York bay (proposal of New Jersey Harbor Commission to build two peninsulas out from "Jersey Flats" and excavate channels alongside) Eng rec Nov 8, 1913. 1 p

**Laws defining powers** and duties of New Jersey harbor commission. Trenton: N. J. Harbor comm May 1, 1914.

**Littoral movement** of the New Jersey coast; with remarks on beach protection and jetty reaction by L. M. Haupt. Trans am soc civ engs 1890 Vol XXIII

**New design proposed** to protect points on New Jersey shore from the sea by F. B. Cresson Jr. Eng rec May 1, 1915. 1 1-4 p ill

**The preservation of sandy beaches** in the vicinity of New York City by E. J. Dent. Pro am soc civ engs May 1916. 19 1-2 p ill

**Reports of Board of commerce** and navigation of the State of New Jersey. Trenton N. J.

**Reports of New Jersey Harbor Commission** Trenton N. J. (4th Preliminary report, 1914 and Port of New York, 1914)

### **HOBOKEN**

**The Holland-America line pier**, Hoboken. Eng rec Oct 16, 1909. 1 p

### **JERSEY CITY**

**Jersey City** by B. F. Cresson, Jr. Pro amer assoc of port author 1914. 2-3 p

### **TRENTON**

**Trenton** by F. W. Donnelly. Pro amer assoc of port author 1914. 1-2 p

**Trenton**—special article by F. W. Donnelly. Pro amer asso of port author 1915. 2 p map

### **WEEHAWKEN**

**The Weehawken elevator** of the New York Central and Hudson River R. R. Co by J. C. Irwin. Eng rec Apr 8, 1905. 3 p ill plans

### **NEW LONDON**

**Connecticut shipping terminal** at New London by W. E. Clarke. Eng news Nov 25, 1915. 4 p plans

**New London**. Pro amer assoc of port author 1914. 1-2 p

**New London**, in Ports of the United States by G. M. Jones. Washington: Govt printing office 1916. 5 p

**New London harbor improvement** project by W. T. Donnelly. Int mar engng Mar 1914. 2 1-2 p maps plans (filled in pier concrete floor)

### **NEW ORLEANS**

**Analysis of present operation** of the Port of New Orleans with present and proposed system of rates by Ford, Bacon and Davies. New Orleans: Board of Commissioners of the Port of New Orleans 1915

**The Chalmette docks** of the New Orleans terminal co Eng rec Jy 28 and Aug 4, 1906. 7 p (full details of methods of construction)

**Cotton warehouse** and terminal at New Orleans. Eng news Je 24, 1915 1 p plans

**Cotton warehouses and terminals**. Ry and mar news Mar 1, 1915. 1 p ill

**Efficiency report** on the port of New Orleans by Marwick Mitchell, Peat & Co New Orleans 1914

**Enlarging the port of New Orleans**. Eng news Mar 18, 1915. 1-2 p

**Facts** about the port of New Orleans by Board of Commissioners of the Port of New Orleans. 51 p

**History of the port** of New Orleans by C. G. Hearsey. Amer printing co 1911. (Terms of lease to Louisiana Construction & Improvement Co)

**The improvement** of New Orleans harbor by S. F. Lewis. Jour assn of engng socs Nov 1911. 14 p

**The key** to the commercial situation. (A publicly owned and publicly operated belt railroad) by Public Belt R. R. Commission. New Orleans 1905. 48 p

**Louisiana State** cotton warehouse and terminal. New Orleans. Trade Index.

**New concrete warehouses** and terminal plant at New Orleans will cover 100 acres. Eng rec Mar 27, 1915. 1 1-2 p plans

**New Orleans** by J. F. Coleman. Pro amer assoc of port author 1913. 4 p

**New Orleans** by T. S. McChesney. Pro amer assoc of port author 1914 1 p

**New Orleans** in port administration and harbor facilities by J. J. McLoughlin. Annals of am acad Mar 1907

**New Orleans**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 16 p map

**New Orleans public terminals** in Appendix No 1 to an Open Letter to the Federal Trade Commission by Robert Bridges. Seattle: Port of Seattle Oct 1, 1915

**Port belt line railroad** by W. B. Thompson. Pro amer assoc of port author 1913. 1 p

**The Port of New Orleans** by E. L. Hawes. Mar review Jy 1910. 1 p

**The Port of New Orleans** by C. O. Sherrill. Pro mem 1914 vol 6. 47 p ill maps diagram (gives methods for improvement of Mississippi River.)

**The Port of New Orleans** by C. O. Sherrill. Pro amer assoc of port author 1913. 20 p

**Port of New Orleans—Banana Terminal and cotton warehouses and terminal** by T. S. McChesney. Pro amer assoc of port author 1914. 8 p

**Port regulations**, with maps showing location of public wharves and sheds by Board of Commissioners of the Port of New Orleans. New Orleans 1909.

**Railway yards**, warehouses and freight handling machinery. Eng news Mar 26, 1908. (Ill of traveling platform for freight handling trucks and belt conveyors for unloading bananas from steamers; no description)

**Report on cotton warehouses** and terminal by Ford, Bacon & Davies. New Orleans

**Report** of Board of Commissioners of the Port of New Orleans. Annual.

**Reports.** Public Belt R. R. Commission. New Orleans

**Special reports of Port Commissioners.** (a) Facts about port of New Orleans, (b) Cotton warehouses and terminals by J. F. Coleman (c) Port of New Orleans 1913 (d) Ordinance for \$25,000,000 bond issue 1915. (e) Board of Commissioners of Port of New Orleans

**Steamship terminal** with fireproof warehouses; New Orleans terminal railway. Eng news Nov 22, 1906. (gives a plan of the terminal showing conveyor and grain elevator)

**The Stuyvesant docks** of the Illinois Central Railroad. Eng rec Je 23, 1906. 3 1-2 p ill

**Synopsis of report** on port charges by Board of Commissioners of Port of New Orleans. New Orleans 1915

**Unloading bananas by machinery.** Sci am sup Apr 3, 1915. 1 p

**Warehouse's crane runways** carried on wall brackets. Eng rec May 6, 1916. 3 1-2 cols ill

### NEW YORK, PORT OF

**Act wardens office** of the Port of New York. New York. C. J. O'Brien 1912

**The bar** in New York harbour by L. M. Haupt. Cassier's mag May 1909. 10 p

**Barge canal terminals** by J. A. O'Connor. Eng rec Aug 29, 1914. 1 p

**Brief and plans** for a new West Washington and Gansevoort Market. Submitted to Market commission of the City of New York by Committee representing Gansevoort Market business men's association, . . . New York May 20, 1912. 13 p plates (gives costs and plans of proposed terminal market)

**Bronx terminal**, New York City by J. R. Marsh. Eng rec Je 27, 1914. 2 p

**Bulkhead construction** in New York. Eng news May 25, 1889. 1-2 p ill

**The bulkhead walls** of New York. R. r. Gaz Feb 21, 1896. 1-3 p ill

**Bulletins** of New York Chamber of Commerce

**The Bush docks** in Brooklyn, New York. Ry and engng rev Aug 15, 1903. 2 p ill

**Bush terminal.** Automobile Aug 6, 1914

**Chelsea municipal docks**, New York. Mun jour & eng Nov 3, 1909. 6 p ill (data by C. W. Staniford)

**The Chelsea section.** Architects' & builders' mag Feb 1910. 8 p ill (data by C. W. Staniford)

**The cofferdam** for the 46th St pier N. R. New York City. Eng news Jy 23, 1914. 3 1-2 p ill (data by C. W. Staniford)

**A comprehensive plan** and policy for the organization and administration of the interstate port of New York and New Jersey by Calvin Tomkins New York: Dept of docks & ferries Feb 19, 1912. 26 p (special report No 18)

**Cost of terminal freight** handling in port of New York. Eng news Mar 31, 1910. 2-3 p map

**Decisions of Secretary of War** on extensions of harbor line by U. S. War Dept. Wash: Govt printing office 1913

- Deep cofferdam** for 1050 foot pier in New York. Eng rec Jy 19, 1914.  
1 1-3 p ill (data by C. W. Staniford)
- Development of port facilities** on New Jersey side of New York Bay.  
(proposal of New Jersey Harbor Commission to build two peninsulas  
out from "Jersey Flats" and excavate channels alongside) Eng rec  
Nov 8, 1913. 1 p
- Digest of data** collected before the year 1908 relating to the sanitary con-  
dition of New York harbor by Metropolitan sewerage comm 1909.  
87 p
- Dock facilities in New York** by W. J. Barney. Trans am soc nav arch  
& mar engs 1911 Vol XIX
- Dock facilities in New York** by W. J. Barney. Trans am soc arch & mar  
engng Je 1911. 2 1-2 p table map
- Docks and ferries** in engineering activities of New York by A. D. Flinn.  
Trans am soc civ engs 1913
- Docks, piers, harbors, port and waters**, secs. 816 to 881, in charter of the  
city of New York. New York: Brooklyn Daily Eagle 1912 (Laws etc  
relating to municipal department of docks)
- Economical freight handling** at the North River water front, New  
York City. Eng news Jy 6, 1911. 2 2-3 p (reviews Calvin Tomkins'  
plans)
- Electric trucking** at New York terminal of Southern Pacific. Int mar  
engng Mar 1915. 1-2 p (gives cost data)
- \$50,000,000 more ratables** for Jersey City. Preliminary report to Jer-  
sey City Chamber of Commerce on an industrial development rail-  
road for Jersey City, N. J. by F. V. Z. Lane. Jersey City Chamber of  
Commerce Jan 11, 1916. 27 p maps
- First unit** of Jamaica Bay improvement completed. Eng rec Mar 18,  
1916. 1 1-4 cols ill
- Freight piers** 39, 40, 41, East River, New York. Eng rec Jy 22, 1911. 2 p  
ill plans
- Handling freight** at a steamship terminal. (New York dock co) Int  
mar engng May 1913. 3 p plan ill
- Handling the grain crop** at the Port of New York. Sci am Nov 20,  
1897. 2 1-2 p ill
- Handling west-bound freight** on the North River railroad piers by W. J.  
Barney. Eng news Aug 14, 1913 (proposed arrangement of pier in  
New York City) 1 p ill
- Harbor and dock improvements** (at New York). Sci am Dec 5,  
1908. 2-3 p ill
- Holland American line pier**, Hoboken, N. J. Eng rec Oct 16, 1909
- Huntspoint terminal**. Eng rec Jy 24, 1915. 2 p ill
- Hydraulic hoisting plant** for pier of Brooklyn Sugar Refining Co by L. C.  
Engel. Trans am soc mech engs 1891

**Improvement of New York Harbor, 1885 to 1891** by Joseph Edwards. New York: Wynkoop & Hallenbeck 1893 60 p ill plates folded map

**The improvement of the channels** at the entrance to the harbor of New York by Joseph Edwards. Trans am soc civ engs Dec 1891. 41 p

**An installation** of freight handling machinery for increasing dock capacity. Eng news May 1, 1913. (Description of an overhead freight handling system installed at one of the docks and storehouses of the New York dock co in Brooklyn ) 1 p ill

**Jamaica Bay improvement.** Eng rec Feb 28, 1914. 2-3 p map

**Jamaica Bay improvements.** Sci am Jy 2, 1910. 1 1-2 p ill

**Jamaica Bay, the world's greatest seaport** by C. F. Carter. Technical world Jy 1910. 8 p ill

**Joint report** on proposed reclamation of land between 81st and 129th streets N. R. by Calvin Tomkins and Chas Stover. New York: Dept of docks & ferries Dec 27, 1910. 7 p (special report No 5)

**Lackawanna freight pier No 7** Hoboken Eng rec Sept 12, 1908. 3 p plans

**Largest steamship pier** on Manhattan Island. (46th St. pier) Eng rec Aug 1, 1914. 2 p ill plans (data by C. W. Staniford)

**Lehigh terminal.** Jersey City Chamber of Commerce May 2, 1916. 11 p

**Lighthouses** and buoys of New York harbor. Sci am sup Mar 1, 1913. 2 p ill

**Mechanical transshipment** of railway and water-borne freight, with special reference to the port of New York by H. McL. Harding. Pro N Y ry club Dec 1909. 60 p ill

**Memorandum on dredging work** in Ambrose channel by H. L. Wigmore. Pro mem 1901 Vol 1. 5 p (gives costs)

**Method** of filling and dredging for a Jersey City freight terminal. (shows crib work) Eng news Dec 17, 1914. 2 1-2 p ill

**Modern pier construction** in New York City by C. W. Staniford. Trans am soc civ engs 1913. Paper No 1292

**Needs of New York harbor** by S. B. Ayres. Independent Apr 25, 1912. 2 p maps

**New Bush terminal pier.** Int mar engng Aug 1914. 2 1-2 p ill

**The new fireproof piers** of the North German Lloyd steamship co at Hoboken, N. J. Eng news Jan 31, 1901. 2 p ill

**New freight pier** at Communipaw, N. J. Ry age gaz May 9, 1913. 2 1-2 p ill (shows track layout at Communipaw pier)

**New Hoboken terminal** of the North German Lloyd line. Eng rec Dec 22, 1900. 2 p ills

**New piers and pier extensions,** in annual report of Dept of docks & ferries, 1915 by R. A. C. Smith. New York: City of New York Dec 31, 1915. 21 p ill

- The new piers** for transatlantic steamships, Chelsea improvement, New York City. Eng news Jan 14, 1909. 7 p ill plans (data furnished by C. W. Staniford)
- New piers in South Brooklyn.** (proposed design) Eng rec May 11, 1907. 1-2 p plan
- New South Brooklyn freight terminal** by C. W. Staniford and Philip Guise. Eng news Mar 7, 1912, 8 p ill
- New South Brooklyn pier** at 35th St is the longest in New York. Eng rec Dec 18, 1915. (data furnished by C. W. Staniford)
- New York,** Port of in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 41 p map
- New York** and marine terminals. New York: Wall St. Journal (series of articles) Sept 26 to Oct 1, 1912 (gives description and statistics of various port terminal companies at New York)
- The New York Dock Department** by S. W. Hoag Jr. Pro munic engs of N Y 1905.
- New York Dock walls.** Eng rec Sept 3 and Oct 1, 1892. 3 p plans
- The New York harbor entrance** by L. M. Haupt. Sci am Jan 7, 1905. 1 p map (proposed Ambrose channel)
- The New York pilot** and guide to the United States local inspectors examination of masters and pilots for New York bay and harbor to Yonkers and Great Captain Island by R. M. Pugsly. 1910. 248 p
- New York's problem** of transportation by H. McL. Harding. Journ of commerce N. Y., Oct 13-15, 1910
- North River bridge** in relation to railroad freight. by Gustav Lindenthal. Pro amer assoc of port author 1912. 2 p
- A notable step** in the building of New York's great piers (46th St pier) by R. G. Skerrett. Sci am Aug 21, 1915. 1 p ill
- Observations** on dock work in New York harbor by J. A. Bense. Trans am soc civ engs 1905. Vol. 54 Pt F.
- Organization** of the port of New York by Calvin Tomkins. Pro natl conference on city planning 1911. 14 p
- Pamphlets** of American dock co. New York
- Pamphlets** of Bush terminal co. New York
- Pamphlets** of Degnon terminal co. New York
- Pamphlets** of New York dock Co. New York
- A plan** for the comprehensive organization and connection of the interstate terminals of the port of New York, outlined to the Committee on the harbor and shipping of the Chamber of Commerce by Calvin Tomkins. New York: Dept of docks & ferries Dec 2, 1911. 6 p (special report No 15.)
- Plan** for the improvement of Hell Gate by C. D. Ward. Sci am May 8, 1915. 1 p map
- Planning the greatest sea port** in the world by B. F. Cresson, Jr. and C. W. Staniford. Dun's review Mar 1913. 8 p maps

**Plans for freight terminal systems** at South Brooklyn and west side lower Manhattan with explanatory statement as to each by Calvin Tomkins. New York: Dept of docks & ferries Dec 2, 1911. 6 p (special report No 21.)

**Port administration** and harbor facilities by J. A. Bensel. Annals of am acad Mar 1907. 43 p

**Port of New York** by A. O. Powell. Pac builder and engr Je 8, 1912. 2 p

**The port of New York** by Calvin Tomkins. Pro muni engs of N Y. 1911

**The port of New York** by New Jersey Harbor Commission (Appendix G. Administration of foreign and American ports) Trenton, N. J. 1914

**Powers, duties.** . . of the Board of Commissioners of Pilots in the Port of New York (from statutes of the State of New York). New York City: Unz & Co

**Preservation** of sandy beaches in the vicinity of New York City by D. J. Dent. Pro am soc civ engs May 1916

**Principles** of port development and the problems of the port of New York by Calvin Tomkins. Pro amer assoc of port author 1912. 10 p

**The problem** of greater New York and its solution (Jamaica Bay) by H. C. Brearley. New York: The Search-Light book corp 1914. 132 p map tab (a publication of Brooklyn League: supplementary chapter by E. L. Corthell)

**The problem** lower West side of Manhattan waterfront by B. F. Cresson Jr. Trans am soc civ engs 1912. Paper No 1222

**Progress report** of the Jamaica Bay Improvement Commission. New Board of estimate and apportionment Dec 27, 1909. 195 p maps and ill

**Proposed Montauk terminals** by W. T. Donnelly. Ry & mar news Nov 1913

**Proposed** new railway system for transportation and distribution of freight by improved methods in the city and port of New York by W. J. Wilgus. New York: Public service comm for First district 1908

**Proposed \$10,000,000** marine terminal and industrial city in New York bay at Bayonne, N. J. New York: The Times Je 19, 1916. 1-2 p ill

**Reconstructing** a New York pier shed. Eng rec Nov 2 1907. 1 p plans

**Reply** to criticisms of reports of the Dept of docks & ferries relating to Manhattan terminals at the port of New York by Calvin Tomkins. New York: Dept of docks & ferries Dec 16, 1910. 33 p (special report No 4)

**Report** accompanying general description of the harbor of New York by S. W. Hoag, Jr. Sept 1911. 35 p (special report No 11)

**Report** accompanying submission of plans for an elevated freight railroad connecting manhattan terminals at the port of New York by Calvin Tomkins. New York: Dept of docks and ferries Jan 26, 1911. 10 p (special report No 6)

- Report of Board** of consulting engineers to Dept of docks New York, 1895-1897
- Report of board of estimate** and apportionment. The removal of the New York Central railroad tracks from the surface of 11th Ave, also the relation of these improvements to the general question of freight handling on the west side. 1910 24 p
- Report of the committee on markets.** New York state food investigating comm Aug 1, 1912. New York: C. P. Young Co 1912
- Report of the Committee on port and terminal facilities upon the railroad terminal facilities of the New York Central r. r. co. on the west sides of boroughs of the Manhattan and the Bronx.** New York: Board of estimate and apportionment Apr 16, 1916. 62 p (maps accompanying this report are bound separately)
- Report of Jamaica Bay improvement commission.** 1909. 99 p (U. S. 60th Congress 2d sess house docu 1506)
- Report of mayor's market commission of New York City.** New York: City of New York Dec 1913
- Report on handling of freight at marine terminals** by B. F. Cresson Jr & H. McL. Harding. New York: Dept of docks and ferries Apr 1912. 28 p (special report No 17)
- Report on Jamaica Bay improvement** by Calvin Tomkins. New York: Dept of docks & ferries Apr 20, 1910. 20 p (special report No 1.)
- Report on pier extensions** by C. W. Staniford. New York: Dept of docks & ferries Feb 24, 1913. 7 p (special report No 25.)
- Report on scope and limits of expropriation, "incidental" vs. "excess"** condemnation by J. DeW. Warner. New York: Dept of docks & ferries May, 1912. 30 p (special report No 19)
- Report on the disposal of city wastes with accompanying map showing opportunities for disposition** by C. W. Staniford. New York: Dept of docks & ferries Feb 1913. 18 p (special report No 23)
- Report upon the elimination of surface railroad tracks of the New York Central** by C. P. Goodrich and H. P. Nichols. New York: Board of estimate & apportionment 1911 (A general scheme of improved freight handling facilities at port of New York) 107 p ill maps and plans
- Report on the mechanical equipment of New York harbor** by B. F. Cresson Jr and C. W. Staniford. New York: Dept of docks and ferries 1912. 42 p ill plates plans
- Report on the organization of the South Brooklyn waterfront, between Brooklyn Bridge and Bay Ridge at the port of New York** by Calvin Tomkins. New York: Dept of docks and ferries Mar 27, 1911. 16 p (special report No 7.)
- Report on the plans of the New York Central and Hudson River r. r. co. referred to the dock commissioner by the Board of estimate and apportionment, under date of Sept 28, 1911, and their relation to a general system of freight terminals** by Calvin Tomkins. New York: Dept of docks and ferries Nov 2, 1911. 23 p (special report No. 14.)

- Report** on the proposed plan of operations for Jamaica Bay improvement by Calvin Tomkins. New York: Dept of docks & ferries Aug 21, 1911. 16 p (special report No 12)
- Report** on the removal of the New York Central railroad tracks from the surface of eleventh avenue by E. C. Moore. New York: Board of estimate & apportionment Dec 1910. 24 p
- Report** on transportation conditions at the port of New York by Calvin Tomkins. New York: Dept of docks & ferries Jy 1910. 23 p maps (special report No 2)
- Report** on west Manhattan water-front by Calvin Tomkins. New York Dept of docks & ferries Feb 24, 1913. 13 p (special report No 24-A)
- A report** on wholesale terminal markets at the port of New York. Submitted to the N. Y. food investigation commission by Calvin Tomkins. New York: Dept of docks & ferries May 7, 1912. 21 p (special report No. 20)
- Reports** of Department of docks & ferries. Annual New York
- Reports** of Merchants & manufacturers board of trade. New York
- Reports** of N. Y. Merchants' association. New York
- Reports** of New York Produce Exchange. New York: New York produce exchange. (Foreign trade of the various ports)
- Reports** of the N. Y. State Commission to investigate port conditions and pier extensions. New York
- Reports** of the Supervisors of the harbor of New York. Wash: Govt printing office
- Rules and regulations** of the Dept of docks & ferries. New York: Dept of docks & ferries 1913
- Rules and regulations** relating to the anchorage of vessels in the port of New York by U. S. bureau of navigation. Wash 1907. 10 p
- Sewerage and sewage** disposal in the metropolitan district of New York and New Jersey by Metropolitan sewerage commission 1910. 550 p
- Shore encroachment** on the Hudson River at New York. Eng news Mar 9, 1911 (discussion of pier-head line extension) 1 1-3 p tables
- Steamship terminal** in the Bronx. Sci am Jan 23, 1915. 1 p ill
- Studies** for combined waterfront and terminal industrial development by Calvin Tomkins. New York: Dept of docks & ferries Aug 1, 1911. 11 p (special report No 2)
- Structural and mechanical** features of a railroad freight pier, Lackawanna freight pier at Hoboken. Eng rec May 24, 1913. 2 p ill
- Supplementary report** on Manhattan terminals at the port of New York by Calvin Tomkins. New York: Dept of docks & ferries Nov 21, 1910. 16 p (special report No 3)
- Supplementary report** on the organization of the South Brooklyn waterfront by Calvin Tomkins. New York: Dept of docks & ferries Jan 8, 1912. 6 p (special report No 16)

- Survey** of East River and Little Hell Gate, New York and resurvey of Hell Gate, letter from Acting Secretary of War, transmitting with a letter from the Chief of Engineers, reports . . . United States Corps of Engineers. Wash: Govt printing office 1913. 75 p pl
- Swinging cargo hoist beams** for new pier shed. Eng rec Je 17, 1916. 3-4 col ill
- Tidal movements** in East River, New York by Col. W. M. Black. Pro mem 1913 vol 5. 30 p diagrams and tables
- Tidal phenomena** in harbor of New York by H. de B. Parsons. Trans am soc civ engs 1913
- Twenty-sixth Annual Report** of Jersey City chamber of commerce. Jersey City Oct 15, 1915. 15 p
- Two-story shed** for New York's 46th St pier serves transatlantic steamers by C. W. Staniford. Eng rec May 27, 1916. 5 cols ill
- Two types** of sea wall for land filling New York City. (at Riker's and North Brother Islands) Eng rec Aug 22, 1908. 1 p
- Waterfront engineering** in American cities. (Boston, New York and Philadelphia.) Eng rec Jy 8, 1899
- Waterfront improvements**—Manhattan freight terminals. Synopsis of resolutions by commercial and public organizations by Calvin Tomkins. New York: Dept of docks & ferries May 11, 1911. 19 p (special report No 8)
- Waterfront of New York** by J. A. Benschel. Eng rec Sept 11, 1909. 1 p
- West side freight traffic.** (problem in New York City) Eng news Apr 13, 1911. 2 1-2 p
- West side improvement plans** of the New York Central r. r. in New York filed. Eng rec May 6, 1916. 8 1-2 cols ill
- West side terminals**—an open letter to the president of the City Club discussing a report of a committee of that club by Calvin Tomkins. New York: Dept of docks & ferries Sept 30, 1911, 5 p (special report No 13)
- Work** to start in deep coffer-dams for New York pier. Eng rec May 22, 1915

## NEWARK

- Harbor development** in Report of City Plan Commission. Newark 1913
- Newark** by J. A. Hallock. Pro amer assoc of port author 1914. 1 p
- Newark** is rapidly creating its own water terminal. Eng rec Aug. 14 1915. 2 p ill plans
- The proposed dock system** at Newark. Eng rec Nov 16, 1907
- Report** of advisory dock & meadow reclamation commission. Newark N J 1908
- Report** of board of consulting engineers on meadow development and ship canal project. Newark: City of Newark 1911

**Selling a seaport.** Advertising and selling Jan 1915. (How Newark is merchandising new industrial facilities)

### NEWPORT NEWS

**Chesapeake** and Ohio railway company's new coaling pier at Newport News. Int mar engng Aug 1914. 1 p ill

**Newport News** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 3 p

### NORFOLK

**Electrically operated** steel coal pier of Norfolk & Western railway. Eng rec Jan 24, 1914. (Details of the equipment of pier at Norfolk Va with plan and profile of layout between yards and pier) 2 1-3 p ill

**New coal pier** for the Norfolk & Western ry co. Ry rev Feb 21, 1914 (General layout of Lamberts Point terminal pier No 4 6 p ill

**New coal pier** Norfolk & Western ry Lambert Point Va by W. P. Wiltsee. Eng news Apr 23, 1914. 6 p ill (coal pier capable of handling 5400 tons per hour, combined use of gravity and mechanical operation)

**New Norfolk & Western** coal pier at Norfolk Va. Ry age gaz Mar 27, 1914. 4 p ill

**New 150 ton** revolving floating crane for Norfolk by A. F. Case. Eng news Je 17, 1915. 1 1-2 p and Eng mag Aug 1915. 1 p plan

**Norfolk** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 9 p map

**Reports.** Board of harbor commissioners of the port of Norfolk, Portsmouth & Norfolk County. Norfolk.

**Reports.** Dock & belt line commission. Norfolk Va

**Sewall's Point** coal pier by F. F. Harrington. Mines & minerals Jan 1910. 2 1-2 p

**The Virginian railways** coal handling plant, the coal shipping terminal at Sewall's Point Va. Ir age Jy 22, 1909. 3 p ill

### OAKLAND

**Detailed report** of Oakland harbor improvement by J. E. Caine. Ry & mar news Jan 1, 1914

**Development of Oakland,** California municipal water-front by W. C. Willard. Engng-contr. 16, 1913. 6 p

**Hydrographic surveying** Oakland harbor development California by F. W. Johnson. Eng news Aug 21, 1913. 2 p map

**Municipal quay wall** Oakland by T. E. Risley. Eng news Feb 13, 1913. 2 p ill

**Oakland** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 5 p

**Oakland** making ready for Panama canal by J. E. Craine. Ry & mar news Jan 1, 1914. 5 p ill

## OGDENSBURG

**Ogdensburg** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 3 p

## PENSACOLA

**Development** of Southern ports. Ry & mar news Mar 1, 1913

**Pensacola** by J. E. Thornton. Pro amer assoc of port author 1914. 1:1-2 p

**Pensacola.** Washington: Nation's business Mar 19, 1913. 1-6 p map

**Pensacola** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 5 p

**Reports.** Board of City Commissioners. Pensacola

**Reports.** Board of Trade. Pensacola

## PEORIA

**Municipal steamboat landing.** Eng news Jan 7, 1915. 1 p plans

## PHILADELPHIA

**The abolishment** of grade crossings and the creation of opportunities for commercial and industrial development. Philadelphia: Dept of public works 1916

**Comparative designs** of river steamship piers Philadelphia Pa. Eng news May 28, 1914 (details of five types of steamship piers) 2 1-2 p ill

**Cross wall pier** on piles. Eng rec Jan 6, 1912

**The Hughes terminal** on the Delaware River at Philadelphia by H. McL. Harding. Eng news Feb 13, 1913. 2 p map

**Improvement** of the channels of Delaware and Schuylkill rivers the city of Philadelphia by C. H. Ott. Pro of engs club of Phila 1902. 26 p ill maps

**The improvement** of the Delaware river and harbor and the landing facilities of the port of Philadelphia by G. S. Webster. Jour Franklin inst Sept 1905. 18 p

**Improvement** of the port facilities of Philadelphia. Eng news Feb 16, 1911. 2-3 p

**The latest municipal pier** at Philadelphia. Eng rec Jan 6, 1912. 1 p

**Latest municipal pier** at Philadelphia (pier No 19 built of concrete and steel) Eng news Jan 6, 1912. 1 2-3 p ill plans

**Modern port improvements** in Philadelphia by John Meigs. Jour amer soc of marine draftsmen Oct 1915. 14 p

**New Gerard Point** grain elevator at Philadelphia by S. Ingberg. Eng news Sept 17, 1914. 7 p ill

**New municipal pier** in Philadelphia. Int mar engng Mar 1914. 2 p plans ill

**New steamship terminal** at Philadelphia by H. McL. Harding. Int mar engng Mar 1913 (A plan of development of the Hughes terminal Philadelphia, Pennsylvania.) 2 p ill

**Ore unloaders** at Philadelphia. Iron trade rev May 20, 1915. 2 p ill

**Pennsylvania** and its manifold activities 1912 (for the 12th International congress of navigation, Philadelphia) by G. C. Whidden and W. H. Schoff. Published by the Local organizing commission of the Congress, 1912.

**Philadelphia** by John Meigs. Pro amer assoc of port author 1914. 1 p

**Philadelphia** by G. W. Norris. Pro amer assoc of port author 1913. 5 p

**Philadelphia.** Wash: Nation's business Mar 19, 1913. 1-3 p

**Philadelphia** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 11 p map

**Philadelphia.** Comparative cost of different pier designs. Eng rec Je 6, 1914. 1 p ill

**Philadelphia** harbor improvements by J. F. Hasskarl. Pro natl conference on city planning 1911. 8 p

**Philadelphia** Southwark piers. Eng rec Oct 16, 1915 (reinforced concrete piers.)

**Port administration** and harbor facilities, Philadelphia by W. W. Pier-son. Annals of am acad Mar 1907. 3 p

**The port** and city of Philadelphia. Philadelphia int nav congress 1912.

**Port developments** in annual report of the Department of wharves, docks & ferries Phila 1914. 43 p ill

**The port of Philadelphia** and the economic development of Pennsylvania by F. P. McKibben. Jour engng soc of Penna May 1905. 30 p

**Recent port** and port railroad development in Philadelphia by John Meigs. Amer assoc of port author 1915. 19 p map

**Reports.** The Dept. of wharves, docks & ferries Philadelphia (annual) (Report 1914; a summary of proposed improvements)

**Shipping piers** in Southwark district. Eng news Aug 26, 1915. 3 1-2 p ill plans

**\$20,000,000.** South Philadelphia railroad improvement. Eng rec Sept 11, 1915. (belt line railroad) 2 1-2 p ill

**Waterfront engineering** in American cities. (Boston, New York and Philadelphia.) Eng rec Jy 8, 1899

## PITTSBURGH

**Pittsburgh** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 7 p

## PORTLAND, ME.

**Portland Me** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 6 p

## PORTLAND, ORE.

- The Columbia river bar.** Mar rev Mar 1911. 3 p
- Design** of harbor works at Portland Oregon by C. W. Staniford, E. P. Goodrich and W. J. Barney. Eng news Oct 10, 1912. 6 p ill
- Gigantic walls** at mouth of Columbia River by G. B. Hegardt. Ry & mar news Dec 1, 1913. 5 p
- Laws, statutes.** 1908. 63 p (charter of the port of Portland with all amendments to date also opinions of the supreme court of Oregon relating thereto)
- The necessity of common terminals** in Report of the 2nd annual meeting of the Pacific coast association of port authorities, 1915 by J. B. Ziegler. California: California state printing office 1915. 14 p
- Ordinances** No 32 and 33 prescribing rules, regulations and rates for the government and use of the municipal docks and wharves of the city of Portland Oregon. Portland: Commission of public docks Mar 19, 1914 and Apr 23, 1914.
- Organization** of the port of Portland. Pac mar rev Apr 1916
- The port of Portland** by port of Portland commission. 1908, 12 p map 1912, 16 p maps
- Port of Portland.** Outline of its organization, object, accomplishments and necessity. Portland. Port of Portland 1914. 20 p ill pl
- Portland, Ore.** Wash: Nation's business, Mar 19, 1913. 1-6 p
- Portland** by G. B. Hegardt. Jour of assoc engng soc Jan 1913. 45 p plans ill
- Portland, Ore** by F. W. Mulkey. Pro amer assoc of port author 1914. 2-3 p
- Portland** in appendix of annual report of harbor commissioners of Montreal 1915. 12 p ill
- Portland** in Pacific ports by H. M. Chittenden. Pro am soc civ engs Sept 1912
- Portland, Ore** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 1 p map
- Portland's harbor improvements.** Pac mar rev Mar 1915
- Portland's proposed harbor** front development and the commission of public docks by G. B. Hegardt. Ry & mar news Feb 1, 1912. 2 p
- Portland's strategic position.** Pac mar rev Apr 1916
- Portland's waterfront improvements** by G. B. Hegardt. Pac mar rev Apr 1916
- Railroad** and port development of Oregon metropolis. Ry & mar news Dec 1, 1913. 2 p ill
- Reports** The commissioners of public docks Portland. (Annual) Report of 1912 contains in appendix—Report of board of consulting engineers.

**Reports** Port of Portland commission. (Biennial)

**Report of board of consultation** to commission of public docks 1912 by C. W. Staniford E. P. Goodrich and W. J. Barney. (Summary published in annual report 1912 Commission of public docks Portland Ore)

**Resolution** in regard to public ownership in Portland in report of the 2nd annual meeting of the Pacific coast assn of port authorities 1915. California: California state printing office 1915. 1 p

**Work on** the Columbia River bar by G. B. Hegardt Pac mar rev Apr 1916

### PROVIDENCE

**General plan** and suggestions in reference to the development of Providence harbor. Rhode Island board of harbor commissioners Providence 1915. 15 p pl

**Masonry bulkhead** on timber deck Providence. Eng rec Oct 28, 1911

**Port administration** and harbor facilities by E. Lackey, Annals of am acad Mar 1907.

**Providence** by C. C. Remington. Pro amer assoc of port author 1914. 2-3 p

**Providence** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 6 p

**Reports.** The State harbor improvement commission. Annual. Providence RI 1879-date. maps plans

### RICHMOND, CAL.

**Proposed inner harbor** plan for the city of Richmond on San Francisco bay. Engng contr Dec 4, 1912. 3 1-2 p ill plans

**The proposed port** of Richmond Calif. Eng news Jan 23, 1913. 1-2 p

**Report** on Richmond harbor project. To council of city of Richmond by P. A. Haviland and F. H. Tibbetts. San Francisco Sept 1912. (with supplementary report on tunnel and roadway) 229 p ill maps plans

**Richmond** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 2 p

### SACRAMENTO

**Sacramento** in Ports of the United States by G. M. Jones. Wash: Govt printing office, 1916. 2 p

### ST. JOHN

**St John.** Amer assoc of port author 1914. 1 p

### ST. LOUIS

**Handling freight** by telpherage. Eng rec Jy 1, 1911. 4 1-3 p ill

**Pamphlets.** Terminal railroad association. St Louis.

**Report** of St Louis river front municipal terminals for boats and railroads. Conference of governors and delegates from river cities. St Louis: City plan commission 1913-1915

**Reports.** Department of streets & sewers. Annual St Louis.

**Reports.** Director of public utilities. Annual St Louis.

**St Louis** by C. M. Talbert. Pro amer assoc of port author 1914. 1 p

**St Louis** municipal railway and water-front. Eng news Jan 13, 1916.  
1-2 p map

### SAN DIEGO

**Report, 1910.** Board of state harbor commissioners for bay of San Diego. biennial Sacramento 1910, ill

**Bulkhead and pier** for new port of San Diego. Eng news Mar 13, 1913.  
2 1-2 p ill

**Great plans** for improving San Diego harbor. Ry & mar news Nov 1, 1913. 2 p ill

**Port of San Diego** by E. M. Capps. W engng Feb 1914. 7 p ill plans  
(describes concrete pile with splay bottom)

**San Diego** by C. F. O'Neill. Pro amer assoc of port author 1914. 1-3 p

**San Diego** in appendix of annual report of harbor commissioners of Montreal 1915. 4 p

**San Diego** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916 3 p

**San Diego** in the Panama Canal and the ports of the Pacific by A. K. Quigley. Eng mag Feb Mar Apr 1915

**San Diego preparing** by E. M. Capps. Ry & mar news Jan 15, 1913. 2 p

### SANDUSKY

**Coal pier** with car-dumping machine at Sandusky. Eng news Mar 11, 1915 3 p ill

**Pennsylvania coal dock** at Sandusky. Ry age gaz Dec 25, 1914. (plan, profile and details of the yards and docks) 2 p ill

**Sandusky** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 1 p

### SAN FRANCISCO

**The belt railroad** of San Francisco by J. J. Dwyer. Pro amer assoc of port author 1913. 8 p

**Building piers** 30 and 32. Methods of casting concrete piers in the dry within steel cylindrical caissons driven into the bottom of the bay. Eng rec Dec 5, 1913. 2 p ill plan

**The California city point** coal pier. Eng rec Je 27, 1908. 2 p plans

**Cement piers** (at San Francisco) Sci am May 25, 1907. 1-3 p ill

**Concrete pier construction** on the Pacific coast by H. A. Crofts. Casier's mag May 1908. 5 p ill

**Concrete wharf** supports in San Francisco harbor by T. S. Williams. Pro amer assoc of port author 1916

**Driving 106 ft concrete piles** on San Francisco piers. Eng rec Dec 18, 1915. 1 p ill

**The Harbor** of San Francisco by H. C. Estep. Mar rev Feb 1910. 7 p

**Harbor rules:** regulations and rates, San Francisco. San Francisco: Board of state harbor commissioners 1913

**An improvement** in pier construction San Francisco. Eng rec Jy 16, 1910. 1 p ill

**The improvement** of the San Francisco's water front by Jerome Newman. Eng news Feb 18, 1915. 2 1-4 p ill plans

**Laws and statutes** relating to San Francisco. Sacramento: Supt state printing Aug 15, 1912 and Aug 15, 1914

**New dry dock** for San Francisco. Eng news Nov 26, 1914. 2 1-2 p ill

**New method of wharf building.** Eng rec Mar 21, 1908. (concrete cased piers)

**New passenger** and freight piers for the Pacific coast steamship company. Pac mar rev Je 1915

**New San Francisco** shipping piers, with concrete cylinder foundations and fireproof deck and superstructure by J. G. Little. Eng news Jy 8, 1909. 1 1-4 p ill plans

**The new transport docks** at San Francisco by Lyman Grimes. Overland Sept 1911. 4 p

**Pier construction** in San Francisco harbor in report of the 2nd annual meeting of the Pacific coast association of port authorities 1915 by Jerome Newman. California: California state printing office 1915.

**Pier twenty-eight** San Francisco by F. G. White. W engng Je 114 (reinforced concrete pier on cylinders constructed in open caissons) 11 p ill plans

**San Francisco.** Planning harbor cities on San Francisco bay. Survey Mar 25, 1916 ill

**Port improvements** at San Francisco by F. O. White. Eng rec Jy 12, 1913. 2 p ill

**Recent harbor expenditures.** Pac mar rev Aug 1914

**Removal** of rocks in San Francisco harbor. Min and sci press May 12, 1900. 4 p

**Report** State board of harbor commissioners. (Biennial).

**Review** of San Francisco harbor conditions by Hamilton Higday. Ry & mar news Apr 1, 1914. 5 p ill maps

**San Francisco** compiled by Secretary. Pro amer assoc of port author 1914. 2 1-2 p

**San Francisco** in appendix of annual report of harbor commissioners of Montreal 1915. 12 p ill

**San Francisco** in Ports of Pacific by H. M. Chittenden. Pro am soc civ engs Sept 1912

**San Francisco** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 12 p map

**San Francisco** in the Panama Canal and the ports of the Pacific by A. K. Quigley. Eng mag Feb Mar Apr 1915.

**San Francisco** harbor development by Hamilton Higday. Ry & mar news Dec 1, 1913

**San Francisco** preparing for Panama canal trade by J. H. Rossiter. Ry & mar news Mar 15 and Apr 1, 1912. 6 p

**San Francisco's waterfront.** Pac mar rev Dec 1914.

**Summary** of port conditions at San Francisco, Cal by J. J. Dwyer. Pro amer assoc of port author 1912. 4 p

**Suspended fenders** a feature of new reinforced concrete piers at San Francisco by F. G. White. Eng rec Feb 20, 1915. 2 p ill (gives details of recent concrete pier construction)

**The state wharves** of San Francisco a lucrative public property by W. V. Stafford. Overland Oct 1910. 9 p

**War-docks,** trade-docks, water-front and city works by J. W. Treadwell. 1907. 16 p

**Wharf construction** at Fort Mason. (San Francisco) Eng rec Aug 6, 1910. 3 p ill (reinforced concrete piers)

## **SAN LUIS**

**San Luis,** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 1 p

## **SANTA MONICA**

**Concrete pier construction** on the Pacific coast by H. H. Dunn. Casier's mag Nov 1909. 6 p (The new reinforced concrete wharf at Santa Monica)

**Reinforced concrete pier** Santa Monica Cal by E. H. Warner. Eng news Dec 9, 1909. 2 p

## **SAVANNAH**

**Economical wharf bulkhead** (Savannah) by W. F. Torrance. Eng news Oct 9, 1913. 2 p ill

**Facts and figures** in favor of deeper water at Savannah by Chamber of Commerce 1906. 17 p

**Freight handling equipment** for fertilizer, central of Georgia ry Savannah by E. M. Phett. Eng news Nov 26, 1914. 4 1-2 p ill

**Savannah,** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 9 p map

## **SEATTLE**

**Bulletin No. 1** by Seattle port commission. 1912 (Comprehensive scheme commission plan of development Harbor Island ("Bush") terminal project)

- Comprehensive outline** of port commission's program for the general improvement of Seattle harbor. Ry & mar news Je 15, 1912. 2 1-2 p plan.
- Construction** of the Grand Trunk Pacific depot. Largest frame dock, pile arrangement, framing details, special features of protection by R. H. Dunlap. Pac builder & engr Feb 25, 1911. 3 p
- Description** of east waterway improvement, Seattle by P. P. Whitham. Ry & mar news May 1, 1913
- General review** Seattle's proposed port improvements (construction under way) by J. E. Shoemaker. Ry & mar news Aug 1, 1913. 3 1-2 p ill
- Harbor development** in Seattle by W. L. Kidstone. Eng rec Aug 23, 1913 (general outline of six projects being undertaken by the port Commission) 2 p ill
- Harbor rules** and regulations of the city of Seattle—provided by Ordinance No 31368 in effect Je 26, 1913. Seattle: Port of Seattle 1913
- Mammoth grain elevator** now nearing completion. Ry & mar news May 1, 1915. 1 p ill
- New Seattle dry dock.** Ry & mar news Apr 1, 1913. 1 p ill
- Opening of new dock** of moment to coast. (Puget Sound navy yard) Ry & mar news Mar 15, 1913. 1 p
- Pier built on cylinders** cast as concrete shells and fill in place, Puget Sound navy yard by H. L. Muchemare. Eng rec Je 22, 1912. 2 p ill
- Plan of Seattle.** Report to Municipal plans commission by V. G. Bogue. Seattle.
- Plan of Seattle** by Municipal plans comm. 1911 (Harbor improvements 10 p—Port of Seattle 60 p)
- Port development** at Seattle by P. P. Whitham. Eng news Mar 11, 1915 5 p ill (gives the plan of the harbour, the terminal situation, the location of warehouses and equipment)
- The port of Seattle** by Gen H. M. Chittenden. Pro amer assoc of port author 1914. 15 p maps
- The port of Seattle** by H. Higday. Seattle: Port of Seattle Sept 4, 1915. 25 p ill maps (review of 4 years' work of the port commission)
- The port of Seattle** year book. History and resources of port. Annual reports of the port commission, port warden, harbor maps and miscellaneous information. Seattle 1914
- Public port utilities** in Seattle (grain elevator, storage warehouses, cold storage plants). Bulletin No 8 by Port of Seattle commission Seattle: Port of Seattle commission 1915. 23 p ill
- Report** of an investigation by a board of engineers of the means of controlling floods in the Duwamish-Puyallup valleys and their tributaries in the state of Washington by H. M. Chittenden. 1907 32 p maps

**Reports of Port of Seattle**

**Reports of Port Warden**

**Reports of Railways and canals committee.** U. S. 48th Congress 1st sess House rep 603 (bill to provide for and aid in construction of a ship canal)

**Seattle** by Hamilton Higday. Pro amer assoc of port author 1914. 1 1-2 p

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**Seattle**, in Pacific ports by H. M. Chittenden. Pro am soc civ engs Sept 19, 1912

**Seattle**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 11 p map

**Seattle port improvements** as planned by Virgil Bogue by P. P. Whitham. Ry & mar news Sept 1, 1911. 4 p

**Seattle port terminals** by P. P. Whitham. Pac mar rev Oct 1914

**Seattle's harbor improvement** by C. A. Osier, Munic jour Apr 23, 1914 (a general description of the harbor 2 1-2 p ill)

**Seattle's plan** for economic terminal facilities by A. L. Valentine. Ry & mar news Mar 1, 1915. 2 p ill map

**Seattle's port facilities** by J. C. West. Pac mar rev Apr 1916.

**Special reports** of Port of Seattle. No 1. Smith Cove Terminal No 2. Public terminal board issues (open letter to federal gov) No 5 Trade commission 1915 (on switching conditions) No 6. Proposed belt line railroad 1915 No 8 The public port utilities in Seattle

**STOCKTON**

**Stockton**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 3 p

**SUPERIOR**

**A large coal storage wharf** at Superior. Eng rec Nov 30, 1907. 2 p

**Three tramway bridges** on the coal storage dock of the Berwind-White coal mining co Superior Wisc by R. W. Wetherill. Eng news Je 18, 1908. 2 p ill

**TACOMA**

**Bogue plans** for Tacoma harbor are comprehensive by Virgil Bogue. Ry & mar news Jan 15, 1912. 2 p

**Commencement Bay**, the harbor of Tacoma by L. P. Zimmerman. Mar rev Je 1910. 8 p

**General review** of north Pacific ports, including Seattle, Tacoma, Vancouver, Victoria, Prince Rupert, Alaska and Columbia River ports. Ry & mar news Feb 1, 1915. 1-7 p

**Harbor development** as applied to the city of Tacoma by T. H. Martin. Report of the 2nd annual meeting of the Pacific Coast Association of Port Authorities, 1915. Sacramento: California State Printing office 1915. 6 p

**Improvement** of Tacoma harbor. Mar rev Mar 1912. 1 p

**Letter** from acting chief of engineers submitting report to review the project now under way for the improvement of the Puyallup waterway in the harbor of Tacoma. U. S. Engineer dept. Mar 14, 1910. U. S. 61st Cong 2d sess Senate doc 418

**Practical men** oppose Tacoma's proposed dock site. Ry & mar news. Sept 1, 1901. 1 p

**Tacoma** by L. G. Parks. Pro amer assoc of port author 1914. 1 1-2 p

**Tacoma** in appendix of annual report of Harbor Commissioners. Montreal, 1915. 8 1-2 p ill

**Tacoma**, in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 7 p map

### **TAMPA**

**Port administration** and harbor facilities Tampa by J. D. Calhoun. Annals of the Amer acad Mar 1907. 1 p

**Tampa**. Wash: Nation's business Mar 19, 1913. 1-6 p ill table

**Tampa**, in Ports of the United States by G. M. Jones. Wash: Govt. printing office 1916. 5 p

### **TEXAS CITY**

**An ocean terminal** for the south, Texas City harbor developments by L. C. Talmage. Sci am sup Feb 22, 1913. 1 p ill

**Rail and water terminals** at Texas City improvements near Galveston including new piers, warehouses and grain elevators by H. A. Thomas. Rr age gazette Jy 12, 1912. 3 p

**Texas City** in Ports of the United States by G. M. Jones. Wash: Govt. printing office 1916. 7 p

### **TOLEDO**

**New dock facilities** of the Hocking Valley Ry at East Toledo, Ohio. Ry rev Apr 11, 1914. 4 1-2 p ill

**A new ore dock** and storage yard at Toledo. Eng rec Feb 11, 1911. 1 p

**Toledo**, in Ports of the United States by G. M. Jones. Wash: Govt. printing office 1916. 3 p

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**Tonawanda**, in Ports of the United States by G. M. Jones. Wash: Govt. printing office 1916. 1 p

### **TWO HARBORS, MINN.**

**New ore dock** at Two Harbors. Rr age gaz Jan 5, 1912. 2 p

**A structural steel ore dock** at Two Harbors. Eng rec Dec 5, 1908. 2 p

**Two Harbors** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 3 p

### **VENICE, CAL.**

**Shore at Venice, Cal.** best protected by permanent sea wall and low groins. Eng rec Jan 8, 1916. 10 1-2 cols ill (report of Leeds & Barnard)

**Shore protection** at Venice, Cal. (from report of Leeds & Barnard for city of Venice) Pro mem 1916 vol 8. 16 p

### **WASHINGTON, D.C.**

**Port Administration** and harbor facilities by D. E. Garges. Annals of am acad Mar 1907. 43 p

**Washington, D.C.** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 5 p

### **WILMINGTON, DEL.**

**Dredging problems** in Wilmington by R. R. Raymond. Eng news May 8, 1913. 4 p

**Port administration** and harbor facilities, Wilmington by William Coyne and J. N. Lawson. Annals of am acad Mar 1907. 2 p

**Wilmington, Del.** in Ports of the United States by G. M. Jones. Washington: Govt printing office, 1916. 2 p.

### **WILMINGTON, N. C.**

**Wilmington, N. C.** in Ports of the United States by G. M. Jones. Wash: Govt printing office 1916. 6 p

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**General review** of North Pacific ports, including Seattle, Tacoma, Vancouver, Victoria, Prince Rupert, Alaska and Columbia River ports. Ry & mar news Feb 1, 1915. 1-6 p

**Harbors of Southern Alaska** by Alaska R. R. Commission. Wash: Govt printing office 1913

**Planning of Alaskan ports** by P. P. Whitham. Wash: Dept of Interior 1916

**Terminal facilities** of North Pacific ports. Seattle: Terminal pub co 1914

### **NOME**

**A landing cableway**, Nome, Alaska. Eng news Sept 4, 1913 (a cableway for transportation of passengers and freight from steamships to the shore at Nome Alaska) 1-2 p ill

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### **CEBU**

**The concrete sea wall** at Cebu by H. F. Cameron. Eng rec Apr 25, 1908

### **ILOILO**

**Reinforced concrete wharf** with granite foundations; harbor improvements at Iloilo, Philippine Islands by W. T. Howe. Eng news Nov 20, 1913 7 p ill

## **JOLO**

**Jolo**, in Random notes on engineering in the Philippine Islands by A. A. Fries. Pro mem 1910 vol 12. 4 p

## **MANILA**

**Manila harbor**, in Random notes on engineering in the Philippine Islands by A. A. Fries. Pro mem 1910 vol 12. 1 p

**The Manila harbor improvements**. Eng rec May 27, 1905

**Remarks upon harbor construction now in progress at the port of Manila, P. I.** by C. McD. Townsend. Wash: Press of the engineer school 1906. 20 p map

**Steel wharves at Manila**. Eng rec Je 16, 1906

## **ZAMBOANGA**

**Zamboanga**, in Random notes on engineering in the Philippine Islands by A. A. Fries. Pro mem 1910 vol 12. 4 p

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## **HAWAII**

**Private wharves and landings in Hawaii**, Report of Commission. . . legislative session of 1909. Honolulu: Commission of wharves and landings 1910. 59 p ill

## **HONOLULU**

**General review** of preparations and work on docks at Honolulu. Ry & mar news Dec 1, 1913

## **PEARL HARBOR**

**Proposed method** of constructing Pearl Harbor dry dock. Eng news Jan 14, 1915. 3 1-2 p ill

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### **CUBA**

**Cuba**, in Great trade possibilities of Latin America. Ry & mar news Dec 1915.

**Cuba—Population-history-resources** 1907, by U. S. Bureau of the census. (description of the ports of Cuba)

**Description** of the harbors of Cuba. New York: Cuba review May 1908

**Report of captain** of the port, Havana, July 26, 1900, in annual reports of the War Department, part 12, vol II (report of the Military Governor of Cuba) Wash: Govt printing office 1902. 15 p

**Report** of W. M. Black, Chief Engineer, Department of Cuba, for six months ending Dec 31, 1900. Wash: Govt printing office 1900

## **GUANTANAMO**

**Coaling station** at Guantanamo, Cuba by W. P. Engelman. Iron age  
Je 24, 1909. 2 p

**U. S. coaling wharf.** Eng rec Feb. 9, 1907. 1 1-2 p ill (reinforced concrete)

## **HAVANA**

**Havana**, in Great trade possibilities of Latin America. Ry & mar news  
Dec 1915

**Reinforced** concrete steamship piers, Havana. Eng news Je 25, 1914.  
5 p ill

**Reinforced** concrete substructure of the Havana Docks Company's piers.  
Eng rec Apr 27, 1912. 2 p

**Reinforced** concrete substructure of Havana Docks Company piers  
(design of piers and fabrication and driving of reinforced piles) Eng  
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## **CURACAO**

**Improving** a harbor of Curacao (Willemshad) by Harry Chapin. Sci am  
May 24, 1913. 1200 w

## **DOMINICAN REPUBLIC**

**La Republica Dominicana** by Enrique Deschamps (ports of the Dominican Republic)

## **HAITI**

**Practical guide** to Latin America by Albert Hale. (description of the  
ports of Haiti)

## **PORTO RICO**

**Harbor improvements** in Porto Rico. New York: Dun's rev international edition Je 1912

**Laws, rules and regulations** for government of docks and harbors of  
Porto Rico. San Juan 1912. 42 p

## **ST. THOMAS**

**New coaling dock** at St. Thomas, the first unit of extensive harbor improvements by C. H. Mason. Sci am sup Aug 15, 1914. 1 p (gives plan of harbor showing location of new dock and improvements)

## **FORT-DE-FRANCE HARBOR**

**Rapport** aux ministères des colonies. . . by Mission chargé d'étudier les conséquences de l'ouverture du Canal de Panama en ce qui concerne les colonies françaises des Antilles et d'Océanie. Paris 1913. 1 v maps (contents Pt 1 Antilles)

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**Les richesses** de l'Amérique Centrale by Desire Pector. (gives an excellent description of the various ports of Central America)

## SOUTH AMERICA

**Conditions** on the west coast of South America by A. B. Lueder. Cornell civ engr Nov 1915. 6 p ill

**Engineering** and commercial conditions and problems in Latin-America; by E. L. Corthell. Wash: Bulletin of the Pan American union Jan 1912

**Le grands ports** recents de l'Amerique du Sud by Alfred Jacobson. Génie civil May 3, 1913. 600 w serial 1st part. (Para, Pernambuco, Bahia.)

**Great trade possibilities** of Latin America. Ry & mar news 1915. (series of articles on Latin America—contains reference and pictures of ports etc) Argentina Feb, Peru March, Chili April, Brazil May, Uruguay June, Colombia July, Ecuador Aug, Panama and Canal Zone Sept, Bolivia Oct, Venezuela Nov, Cuba and Havana Dec.

**I pui recenti** nei maggiori porti atlantici del l'America del Sud by Cesare Chiodi. Monit tec Nov 10, 1913. 6600 w ill (Argentine, Uruguay and Brazil)

**The ports** of the west coast of South America. Lima: West coast leader Apr 9 1914

**Notes on Latin American** engineering problems and their bearing on trade by E. L. Corthell. Wash: Bulletin of the Pan American Union Mar 1911. 1 p

**Some ports** on the west coast of South America and their future development. by A. D. Swan. Pro amer assoc of port author 1916

**South America.** (Foreign commercial guide) Philadelphia: Philadelphia commercial museum (gives a full and detailed description of all the ports of South America)

**South American year book** and directory. London: Louis Cassier Co Ltd — New York: International Book Co

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**Argentina,** in Great trade possibilities of Latin America. Ry & mar news Feb 1915

**Argentina river ports.** London: Times, South American supplement Oct 25, 1910

(**Los**) **nuevos faros** de la republica Argentina (paper before second scientific Latin-Amer Congress at Montevideo) by Luigi Luiggi. Buenos Aires 1901. 36 p plates tables

## BAHIA

**Bahia Blanca** an Argentine seaport made to order by M. D. Carrel. Bul pan am union Mar 1916. 3 p

## BUENOS AIRES

**Buenos Aires** and some minor Argentine ports by F. Lavis. Eng news Jan 29, 1914. 8 p pills

**Buenos Aires harbour work** by J. M. Dobson. Pro inst civ engs 1898-99  
Vol 138. 60 p ill plates

**El puerto de Buenos Aires** by L. A. Huergo. 1904 179 p (Historia tecnica del puerto de Buenos Aires)

**Port of Buenos Aires.** Dun's rev Int edition Je 1904

**Progresos de las obras del puerto la Paz.** Buenos Aires: Boletin de obras publicas Jy and Aug 1911

(el) **Puerto de Buenos Aires:** memoria presentada al "Instituto de Ingenieros civiles de Londres": Traducide y anotada por al ingeniero L. A. Huergo para la "Revista Tecnica" by J. M. Dobson. Buenos Aires 1900. 213 p map

**Puerto do Buenos Aires** by L. A. Huergo. Buenos Aires 1898. 336 p pl maps (Congreso Cientifico Latino Americano 1898)

### CALVIN PORT

**Calvin port,** Bahia Blanca, Argentine by C. A. Ttery. Pro inst civ engs  
Nov 30, 1915

### ROSARIO

**Etude sur les magasins à grain elevateur du port de Rosario** by Barbet.  
Revue de Mecanique Nov Dec 1908 vol 23 (Description of machinery for elevator)

**Puerto del Rosario,** correction del rio (Parana) by Domingo Carrique.  
(Proceedings) Vol XIX de los Trabajos del Cuarto Congreso Cientifico—Santiago 1908-1909. Santiago Chile 1912. 9 p map

**Port du Rosario** by Geo Hersent. Paris: Société d'encouragement pour l'industrie nationale. 1904. 86 p maps ill

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**Bolivia,** in Great trade possibilities of Latin America. Ry & mar news  
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**Brazil,** in Great trade possibilities of Latin America. Ry & mar news May  
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**Portos,** in Relatorio, ministro da viaçaoe obras publicas by José Barboza  
Gonçalves. Rio de Janeiro: Imprensa nacional 1912 79 p

**Portos do Brazil,** leis, decretos, contractos e mais actos officiaes sobre os  
portos do Brazil com annotacoes e noticia resumida dos estodos, projectos  
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**Ports of Brazil.** London: Times, South American supplement Mar  
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### **PARA**

**Description** of the port of Para. Wash: Bulletin of the Pan American union Je 1910

**Port facilities** at Para Brazil. Eng news Feb 22, 1913 (Very brief description of general layout of the port, tracks and machinery)

**Port of Para** by E. L. Corthell. Int nav congress 1907. 13 p pl maps

**The port of Para** by Albert Hale. Wash: Bulletin of the Pan American union Oct 1912. 16 p

**Reports** of Ports of Para. Annual London 1911-12. 2 vol maps

**The trade** of the Amazon and the port of Para by D. F. St. Claire. Eng mag Oct 1909. 13 p

### **RIO DE JANEIRO**

**Port works** at Rio de Janeiro. Wash: Bulletin of the Pan American union Dec 1909

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### **RIO GRANDE**

**Port works** of Rio Grande do sul. Shipping illustrated Mar 18, 1916. 1 1-2 p

**The jetty** and port works of Rio Grande do sul. Eng rec Aug 15, 1908. 1 p

**Rio Grande** do sul by C. F. Carter. Wash: Bulletin of the Pan American union Mar 1910

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### **ANTOFAGASTA**

**Port works** at Antofagasta. Valparaiso: Chili to-day Je 1914

### **SAN ANTONIO**

**The port** of San Antonio by C. O. Valeric. Valparaiso: Chili to-day, Apr 1914

**Puerto de San Antonio**: Proyecto; by G. H. van M. Broekman. Santiago 1908. 2 v pl tab atlas

### **VALPARAISO**

**El mejoramiento** del puerto de Valparaiso by E. R. Cox. (Proceedings) Vol XVIII de los Trabajos del Cuarto Congreso Cientifico, Santiago 1908-09, Santiago Chili 1912

**Harbor of Valparaiso**, in River and harbor notes from foreign lands compiled by F. B. Downing. Pro mem 1912 Vol 4 2 p

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**Port improvements in Colombia.** Shipping illus Oct 4, 1913

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**Memoria sobre el plano de la bahia de la Buenaventura.** Bogota: Anales de ingenieria July Aug 1915

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**A step in the progress of Paraguay.** (Port works at Asuncion) Wash: Bulletin of the Pan American union Nov 1915

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**Peruvian ports.** Lima: West coast leader Apr 23, 1914 and May 7, 1914 (includes Pacasmaya, Chimbote, Chilca, Tambo, Chala and Mantarani)

### CHIMBOTE

**Port of Chimbote** (Peru) a coaling station and naval base in the North. Lima: Peru to-day Sept 1913

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**Atlantic ports of Uruguay.** Shipping illus May 6, 1911 (includes Punta del Este, La Paloma and La Coronilla.) 1-8 p

**Uruguay**, in Great trade possibilities of Latin America. Ry & mar news Je 1915

### CONCORDIA

**Puerto de Concordia** (Uruguay) by Lorenzo Amespil. (Proceedings) Congreso científico internacional americano 1910. Buenos Aires: Imprenta de Coni Hermanos 1911. 24 p

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**El puerto** de Montevideo by Jose Monteverde. (Proceedings) Congreso científico internacional americano 1910. Buenos Aires: Imprenta de Coni Hermanos 1911. 8 p

## **VENEZUELA**

**La barra** de Maracaibo. Caracas: Revista tecnica Jan 1911

**Venezuela**, in Great trade possibilities of Latin America. Ry & mar news Nov 1915

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## **CANALS AND RIVERS**

**Artificial waterways**, discussion. Trans am soc civ engs 1905. Vol LIV Part F

**Dimensions** of an artificial waterway to carry a known volume by Gen. H. L. Abbot. Pro mem 1910. Vol 2. 5 1-3 p

**Great canals** of the world in History of the canal system of the State of New York by N. E. Whitford. Albany: Brandow Printing co 1906. 1513 p

**Kanal-und Flussbau** by Edward Sonne. Lehrbuch des tiefbaues herausgegeben von Karl Esselborn. Leipsig: Wilhelm Engelmann 1910. 132 p

**Natural waterways**, a review of their development in the Netherlands by A. B. Marinkelle. Trans am soc civ engs 1905. Vol LIV Part D

**Seepage losses** from earth canals by E. A. Moritz. Eng news Aug 28, 1913 3 1-2 p diagrams

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**Navagazione interna.** . . Belgio by C. Valentini. Giornale del Genio civile 1909. 27 p ill maps

**Report on work undertaken.** . . .for the improvement. . of inland navigation by E. J. Marote and J. Descans. Int nav congress 1911. 31 p pl

## **BERLIN-STETTIN**

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**La miora grande** via navigabile Berlino-Stettino, Giornale del Genio Civile 1914. 21 p ill

## **BRUGES**

**Bruges ship canal** and new works at Ostend and Antwerp by Vernon Harcourt. Pro inst civ engs 1898-99 pt 2.

## **BUFFALO**

**Buffalo barge canal terminal.** Eng news Dec 9, 1915. 1 1-2 p plans

## **CAPE COD**

**The Cape Cod canal.** Eng news Jan 9, 1913. 3 1-2 p ill

**Cape Cod canal.** Sci am Sept 6, 1913. 1 1-2 p ill map

**The Cape Cod canal** by R. P. Getty. Cassier's mag Jan 1911. 14 p ill

**Cape Cod** and its canal by J. W. Miller. New York 1914. 38 p (Cape Cod construction company)

**Excavating methods** and equipment on the Cape Cod canal by E. F. Verplanck. Eng news Feb 19, 1914. 4 1-2 p ill

## **DALLES-CELILO**

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**The Dalles-Celilo canal.** Pac mar rev Jy 1915

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## **GEORGIAN BAY**

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- Mariner's handbook** by E. K. Roden. Scranton: International correspondence schools 1914. 2nd ed 50 c
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- Notes on docks** and harbors by S. Wagoner. Trans am soc civ engs 1909 Vol LXII

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- Notes** relating to the stability of the substructure cribs for the new piers of the Duluth ship canal. Report of chief engineer of U. S. Eng rec Nov 7, 1913
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- Preparation** and use of concrete blocks for harbour works by I. Hiroi. Trans am soc civ engs 1905 Vol LIV Part A
- Principles** and practice of harbour construction by William Shield. New York: Longman's Green & co 1910. 299 p
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- Reinforced concrete wharves** and warehouses at lower Pootung, Shanghai by S. H. Ellis. Pro inst civ engs 1911-12 130 p ill plates (Thorough discussion of concrete wharf and warehouse construction)
- Report to ministers** of railways and canals by F. W. Cowie. Ottawa 1913 (on new terminals at Halifax, consulting engineer's report, elaborate)
- Report** of the commissioners of public docks. Portland 1912. Appendix-report of board of consulting engineers 1912
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- Freight terminals** and trains by J. A. Droege. (Chapters on water-front terminals and mechanical handling of freight etc) New York: McGraw-Hill 1912 \$5.00
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- Plans for freight** terminal system at South Brooklyn and west side lower Manhattan, with explanatory statement as to each by Calvin Tomkins. New York: Dept of docks and ferries Sept 1912. 11 p (special report No 21)
- Port terminal development**, a discussion of fundamental problems by P. P. Whitham. Pro amer assoc of port author 1915. 17 p
- The proposed public belt line** bulletin No 6 by Port of Seattle commission. Seattle Dec 4, 1915. 32 p
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- Railway services** of a port including also the question of the absorption of charges—from the railway point of view by F. R. Hanlon in Proceedings of the conference of the port authorities of the Pacific coast 1914. Seattle Je 1914. 3 p
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- Studies** for combined waterfront and terminal industrial development by Calvin Tomkins. New York: Dept of docks and ferries Aug 1, 1911. 11 p (special report No 2)
- Terminal facilities** in relation to waterway improvements by G. A. Zinn. Pro mem 1911. Vol 3. 12 p
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- What makes commerce?** Harbor development and dock efficiency. Cassier's mag Je 1913. 13 p ill

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- Brunswick, Ga.** outer bay improvement by E. L. Corthell. Washington 1900. 20 p
- The buoys** of New York harbor by H. F. Sherwood. Rudder Oct 1912. 3000 w ill
- Coast and geodetic survey.** Table of depths for channels and harbors, coasts of the U. S., including Porto Rico and the Hawaiian Islands and the Philippine Islands 1910 159 p
- Comparative cost** of dredging, from report of Col. S. W. Roessler. Pro mem 1910 Vol 2. 1-2 p
- Compilation** as to the utility of outlets in reducing heights of floods by J. A. Ockerson. Pro mem 1915. Vol 7 33 p
- Contract dredging** by hydraulic dredges. Engineering dept U. S. Army, year ending Je 30, 1913. Eng news Oct 1, 1914 (gives full data and cost)
- Control** of river floods by Col. C. McD. Townsend. Pro mem Vol 5. 1913. 10 p
- Current practice** in blasting and dredging rock under water. Engng-contr Apr 24, 1912. 4 p
- Dredges and dredging** in the Mobile district by J. M. Pratt. Pro mem Vol 4 1912. 41 p diagrams and plans

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- Dredges and dredging** in Mobile harbor records and cost of dredge work. Engng-contr Mar 20, 1912
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- The geological history** of harbors by N. S. Shaler. U. S. Wash: Geological survey, 13th annual report.
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- Improvement** of inland rivers by Maj W. W. Harts. Pro mem 1910. vol 2 36 p
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- The improvement** of rivers by B. F. Thomas and D. A. Watt. New York: John Wiley & sons 2 v \$7.50
- The improvement** of the entrance to Cumberland sound, Georgia and Florida by J. H. Bacon. Eng news Mar 12, 1903. 3 p
- Lighthouse engineering** in Great Britain, 1915 by W. T. Douglas. Int nav congress 1905. 16 p ill pl
- Memorandum** on dredging work in Ambrose Channel by H. L. Wigmore. Pro mem 1901. Vol 1. 5 p (gives costs)
- Method** of filling and dredging for a Jersey City freight terminal. (shows crib work etc) Eng news Dec 17, 1914. 2 1-2 p ill
- Methods of creating** and maintaining channels at mouths of fluvial and tidal rivers by E. L. Corthell. Eng rec Jan 9, 1915. 1 p
- Modern dredging appliances** for waterways by J. A. Seager. Cassier's mag Jan 1910. 14 p
- Most recent progress** of lighthouses and beacons by Charles Ribieres. Paris: Int nav congress 1900. 7 p 10 pls ill (note: same in French, Paris 1902 55 p ill 1 tab)
- Notes** on the improvement of river and harbor outlets in the U. S. by D. A. Watt. Trans am soc civ engs 1905.

- Notices sur les dessins** et appareils exposes par le service de phares et balises. Paris: Imprimerie nationale 1908. 119 p pl
- Physical phenomena** of harbour entrances by L. M. Haupt. Pro am philosophical soc 1887. 22 p 4 pl
- The port of New Orleans** by Capt C. O. Sherrill. Pro mem 1914. Vol 6 47 p ill maps diagram (gives methods for improvement of Mississippi River)
- Outline** for preliminary examinations and surveys (for waterway improvement) by Col G. A. Zinn. Pro mem 1910 Vol 2. 6 p
- Port channels** of Venice kept clear by tidal movement properly controlled by Luigi Luiggi. Eng rec Nov 20, 1915
- Recent lower Mississippi** valley waterway improvements by Maj C. S. Smith. Pro mem 1912. Vol 4. 11 p
- The regulations of rivers** by J. L. Van Ormun. New York: McGraw-Hill 1914
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- Report** of an investigation by a board of engineers of the means of controlling floods in the Duwamish-Puyallup valleys and their tributaries in the state of Washington by H. M. Chittenden 1907. 32 p maps
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- River and harbor** improvements by W. H. Bixby. Eng news Jan 11, 1912. 31-2 p
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- Sea going** suction dredges by T. M. Combrooks. Trans am soc nav arch & mar engs 1908. Vol XVI
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**Widening the passage** between docks at Barrow in Furness. Engng Jan 20, Feb 3, 17, Mar 3, 1911. 11 p ill plans

**Wire drag work** of the U. S. coast and geodetic survey. Eng news Dec 1, 1910. 11-2 p plans

**Work** on the Columbia river bar by G. H. Hegardt. Pac mar rev Apr 1916

**Works** for the improvement of navigable entrances by Luigi Luiggi. Trans int engng congress 1915. 31 p (describes entrances to Italian harbors)

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## **BREAKWATERS, SHORE PROTECTION, • WAVE-ACTION**

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**Admiralty harbor** at Dover. Engng Oct 15, 1909. 5 p ill (gives design of breakwater)

**Beach erosion** and shore protection, Atlantic City, N J by Mandes Golder. Eng news May 28, 1914. 1 p ill plans

**Breakwater** at Buffalo by Emile Low. Trans am soc civ engs 1904. 141 p ill map

**Breakwater** at Svanske Island of Bornholm in the Baltic. Engng Mar 15, 1912. 2 p ill plans

**Breakwaters** in Pro 10th congress at Milan, int nav congress

**Brush and stone** jetties prove effective at Ventnor City and Longport N J by W. I. Risley. Eng rec Je 24, 1916. 7 vols ill

**Coast erosion** and foreshore protection by J. S. Owens and G. O. Case. Lon: St Bride 1908. 144 p

**Coast erosion** and protection by E. R. Matthews. London: Chas Griffin & Co 1913

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**Concrete "bleachers"** protect Massachusettes shores. Eng rec Apr 3, 1915. 1 p ill

**Construction** of the outer moles of ports by Oddone Bernardini. Int nav congress 1905. 25 p pl

- Cross sections** of breakwaters to withstand wave action by F. V. Abbot. Pro mem 1913 Vol 5. 13 p ill plan
- Description** and cost of concrete superstructures for breakwaters at Harbor Beach Mich by E. J. Duffies. Pro mem 1912. Vol 4. 14 p plans
- Duluth-Superior harbor** by Capt E. D. Peck. Pro mem 1914 Vol 6 (gives breakwaters)
- Holland** develops new types of shore protection. Eng rec Jan 22, 1916. 4 cols ill
- How to build** a stone jetty on sand bottom by H. C. Ripley. Trans am soc civ engs Paper 1237
- Littoral drift**; in its relation to the out falls of rivers and to the construction and maintenance of harbors on sandy coasts by W. H. Wheeler. Pro inst civ engs 1895-96 Vol CXXV. 85 p plates
- Littoral movement** of the New Jersey coast; with remarks on beach protection and jetty reaction by L. M. Haupt. Trans am soc civ engs 1890 Vol XXIII
- Method** of constructing a breakwater at Naples, using concrete hollow blocks Engng-contr Je 12, 1912. 2 1-2 p ill
- New design** proposed to protect points on New Jersey shore from the sea by B. F. Cresson jr. Eng rec May 1, 1915. 1 1-4 p ill
- Notes** on the effects of waves on breakwaters in different depths of water by William Shield. Pro inst civ engs 1898-99. Vol 138. 7 p
- Opere di difesa delle coste** Pennelli rivestimentie muri di difesa by I. Inglese and D. L. Gatto. Giornale del Genio civile 1914. 25 p ill plates
- The preservation** of sandy beaches in the vicinity of New York City by E. J. Dent. Pro am soc civ engs May 1916. 19 1-2 p ill
- Proper profile** for resisting wave action by T. Cooper. Trans am soc civ engs 1896
- The protection** of shores by E. L. Corthell. Eng mag Dec 1897
- The reaction** of breakwater as applied to the improvement of ocean bars by L. M. Haupt. Trans am soc civ engs 1899 & 1900
- Reinforced concrete** sea defenses by J. S. Owens. Pro inst civ engs 1911-12 paper 3998
- Report** on the most recent works constructed at the more important sea ports and especially those relating to breakwater; application of reinforced concrete by H. Monch. Int nav congress 1912. 16 p pl
- Report** on the recent and most interesting breakwaters and application of reinforced concrete in the maritime ports of Algeria. Int nav congress 1912
- The sea coast** 1. destruction. 2. littoral drift. 3. protection by W. H. Wheeler. New York: Longman Greene & co 1903. 361 p \$4.50
- Seacoast protection**; by J. W. Sanderman. Engr., Lon: 1899. Vol 87.

- Sea walls** of various designs discussed and compared. (Extracts from reports of Leeds & Barnard on shore protection problem at Venice Cal) Eng rec Jan 29, 1916. 1 p ill
- Shore at Venice Cal** best protected by permanent sea wall and low groins. Eng rec Jan 8, 1916. 10 1-2 cols ill (Report of Leeds & Barnard)
- Shore protection** at Venice, Cal. (from report of Leeds & Barnard for city of Venice) Pro mem 1916. vol 8 16 p
- Some general notes** on ocean waves and wave force by Theodore Cooper. Trans am soc civ engs 1896
- A theory** of the water wave by M. F. Sanborn. Trans am soc civ engs 1911
- Wave action** in relation to engineering structures by D. D. Gaillard. Washington D. C. 1904. 232 p ill plans. (profession paper, corps of engs No 31)
- Wave action** on harbor breakwaters and piers by E. R. Matthews. Sci am sup May 23, 1914. 2 1-2 p diagrams and formulas
- Wave action** on harbor breakwaters and piers by E. R. Matthews. Engng Feb 6, 1914. 3 p ill plans
- War against waves**—shore protection by E. L. Corthell. Eng rec Apr 11, 1914. 4 1-2 p ill plans (Review of forty-four years' experience)
- Wave impact** on engineering structures by A. H. Gibson. Pro inst civ engs 1911-12 Paper 3952
- Wave reaction** by W. P. Rice. Jour assn engng soc Apr 14, 1885
- The winning** of the costals lands by A. E. Carey. Pro inst civ engs 1910-11 paper No 3885. 32 p

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- Brush and riprap buffer** will protect bulkhead by H. E. Weir. Eng rec Je 3, 1916. 2 1-4 p ill
- Bulkheads** for Boston dry dock. Eng news Nov 26, 1914. 1-2 p ill
- Bulkhead construction** in New York City. Eng news May 25. 1889. 1-2 p ill
- The bulkhead walls** of New York. R r gaz Feb 21, 1896
- Calculations** of docks and bulkhead walls by Wollmar Fellenius. Eng rec Sept 20, 1913 (Translation of a lecture)
- Cellular type** of quay wall at Halifax terminals compared with other designs. Eng rec Feb 12, 1916. 2 p ill
- Comparative sections** of lock walls by E. H. Bullock. Pro mem 1911. vol 3 10 p diagrams
- Concrete blocks** for New York sea wall. Eng rec Apr 15, 1905
- Concrete blocks.** (Seaham harbor) Pro inst civ engs 1905-1906 Vol 165
- Construction of a sea wall** at Fort Morgan. Eng rec Apr 24, 1909. 1 p

- Design** for a granite masonry sea wall at Boston. Engng-contr Nov 9, 1910. 1 p
- Designs of walls**, bins and grain elevators by M. S. Ketchum. New York: Eng news pub co 1911. 2nd ed 556 p
- Dock wall**. (abstract of paper before concrete institute of engng) by F. E. Shields (on Stability etc) Engng Apr 30, 1915. 2 1-2 p ill
- Economical wharf bulkhead** (Savannah) by W. F. Torrance. Eng news Oct 9, 1913. 2 p ill
- An extensive sea wall** at Coronada Beach. Eng rec Jy 18, 1908. 1 p
- Fallacies in retaining wall design** and the latest pressure of saturated earth by L. D. Cornish. Pro men 1916. Vol 8. 35 p diagrams
- Floating concrete caissons** (foreign and domestic development) by H. S. Taft. Pro mem 1915. 36 p ill (concrete cribs etc)
- Formulae** for design of retaining walls of locks. Pro mem 1910. Vol 2 9 p
- Hafendamme**, ufermauern und schiffsbauanstatten by H. Mönch and Peter Hedde. Leipsig 1912. 236 p ill pl
- Manufacture** of concrete blocks for New York sea wall. Eng rec Apr 15, 1905. 1 p ill
- Masonry bulkhead** on timber dock, Providence. Eng rec Oct 28, 1911
- Method** of designing a reinforced concrete settling basin for Muskogee, Oklahoma water works. Engng-contr Je 12, 1912. 2 1-2 p (full discussion of pressure on concrete bulkhead)
- Municipal harbor construction** in Minneapolis. Eng news Jy 30, 1914. 2-3 p plans (concrete sea wall)
- Municipal quay wall** Oakland by T. E. Risley. Eng news Feb 13, 1913. 2 p ill
- New York City dock walls**. Eng rec Sept 3, Oct 1, 1892. 3 p plans
- The New York dock department** by S. W. Hoag, jr. Pro munic engs of N. Y. 1905. (refers to bulkheads in New York, plans)
- Novel bulkhead** for wharves by H. D. Mendenhall. Eng news Oct 21, 1915. 2 1-2 p plans
- The percolation** and upward pressure of water by W. A. Mitchell. Pro mem 1915. 5q p
- Quay walls** at Nantes. Eng news Feb 5, 1914. 1-2 p ill
- Reinforced concrete caissons** and dock walls at Rotterdam, Holland. Eng news Jan 17, 1907
- Reinforced concrete sea wall** construction of separately molded members. Engng-contr Aug 24, 1910. 2 p
- Retaining walls**, failures, theories, and safety factors by J. W. Pearl. Jour soc engs Feb 1914. 60 p tables plans
- Retaining walls** for earth by M. A. Howe. New York: John Wiley \$1.25
- A river training wall** at Rangoon, Burma. Eng news Jy 27, 1911

- Sea and river walls** by G. W. Deakin. Trans Liverpool eng soc 1900 Vol 21
- Sea walls** and breakwaters by J. H. Forman. Pro inst civ engs 1908-09 Paper 607
- Some types** of sea walls and their structural characteristics and costs by G. A. Orrok. Engng-contr Feb 16, 1910. 1 p
- The stability** of sea walls by D. C. Serber. Eng news Aug 23, 1906. 2 p
- Steel and concrete** dock wall by Charles Benham. Eng news May 18, 1911. 4 p
- Theory and practice** of designs and construction of dock walls by J. R. Allen. London: E. & F. N. Spon 1876
- Two types** of sea wall for land filling, New York City. (at Riker's and North Brother Islands) Eng rec Aug 22, 1908. 1 p
- A typical Hamburg** quay wall. Eng news Nov 6, 1913
- L'Avenir** des colonnes creuses en cement armé. LeCement Apr & May 1908 (quays walls etc ) 49 p

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## PILES, LUMBER PRESERVATIVES

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- Bearing of piles** in silt. Loading tests on municipal pier in New York City. Eng rec Jy 25, 1914
- Butt treatment** of piles and poles effective. Eng rec Jan 22, 1916 1 1-2 cols
- Comparative tests** of yellow pine and Puget Sound fir by F. W. Hibbs. Pacific northwest soc of engs Nov 1902. 44 p diagrams ill tables
- Concrete pile standards** by Hunley Abbott. New York: Berrain & Douglas 50c
- Creosotes** and creosoting by J. O. Oakes. Pro mem 1909. Vol 1 31 p
- Concrete piles** by H. J. Cole. Trans am soc civ engs 1909.
- Creosoting piling** in Galveston bay bridge by F. B. Ridgway. Eng news May 28, 1914. 7 p ill tables
- Durability** of creosote lumber in sea water. Abstract report of G. E. Verrill. Pro mem 1909. Vol 1 3 p plan
- Formulas** for determining the pressure on piles supporting masonry by J. R. Biedinger. Engng-contr Mar 15, 1916. 1 1-2 p diagrams
- Forest service** proposed douglas fir grading rule. Eng rec Feb 12, 1916. 3 cols ill
- Long leaf pine** distinguished readily from loblolly or short leaf by Arthur Koehler. Eng rec Sept 11, 1915. 1 1-2 p diagrams
- Loading test** of lagged piles in soft silt by C. W. Staniford. Eng news Jy 8, 1915. 1 p ill
- Manual** of the American railway engineering association. Chicago: Amer ry engngn assoc 1911. (in report of committee VII on wooden bridges and trestles are given specifications, etc for timber piles, also for pile driving) 26 p ill (also committee XVII on wood preservation)

- Marine wood borers** by C. H. Snow. Trans am soc civ engs 1898
- Mechanical properties** of wood by S. J. Record. New York: John Wiley & Sons 1914. 165 p ill \$1.75
- Methods** of treating piling for harbor works. Ry & mar news Jan 15, Feb 1, Mar 1, 1913. 2 p (Summary of reports in daily consular and trade reports, bureau of foreign and domestic commerce)
- New pile formula** (for concrete piles) Eng news Oct 29, 1914
- Penetration** and load test of piles by L. F. Leurey. Eng news Jy 30, 1914. 5 p ill (gives loading and cost of piles in soft ground for Panama exposition building)
- Piles and pile driving.** Appendix E, Amer railway engineering and maintenance of way assoc Vol II Part 1, 1910. 32 p (treats of shoes, rings, driving and splicing and concrete piles)
- The preservation** of structural timber by H. F. Weis. New York: McGraw-Hill 1915. 312 p \$3.00
- Pressure** on piles supporting masonry. Engng-contr Nov 17, 1915
- Property** and uses of Douglas fir by McGawey, Clurie and J. B. Knapp. Wash: Govt printing office 1911. 75 p (Bulletin 88—Dept of Agriculture, Forest Service)
- Protecting piles** against teredo by R. Montfort. Trans am soc civ engs 1894
- Rational specification** of wooden pile by E. P. Goodrich. Pro mem 1915 Vol 7. 2 p
- A reinforced concrete pile** with special provision for jetting. Eng news Oct 8, 1914. 2 p ill
- Reinforced concrete piles** by G. B. R. P. Pimm. Pro inst civ engs 1911-12 Paper 4017
- Remarkable pile test.** Eng news Jy 23, 1914 (piles for 46th St. pier N. Y. City)
- Rules and specifications** for the grading of lumber adopted by the various timber manufacturing associations of the United States by E. R. Hodson. Wash: Govt printing office 1906. 127 p (bulletin 71—Forest service department of agriculture)
- Southern yellow pine timbers** (Density classification). Amer soc for testing materials 1915.
- Specifications** for the purchase and preservation of treatable timber. Pro am wood preserver's assn 1915
- Strength of piles**, experiments concerning the strength of long timber columns of piles (fir) by C. S. Bihler. Pacific northwest soc of engs Jy 1902. 17 p (gives results tabulated in terms of ratio of length and diameter)
- Supporting power** of piles by E. P. Goodrich. Appendix F, Am railway engineering maintenance of way assoc Vol II part 1, 1910 10 p
- Supporting power of piles** by E. P. Goodrich. Trans am soc civ engs 1902
- The teredo** and the limitations of its action by F. W. D. Holbrook. Pacific northwest soc of engs Sept 1902. 6 p

**Use by railroads** of concrete piles. Can eng Apr 15. 1915. 4 p (gives full tables of costs)

**Yellow pine timber** graded without guess work by H. von Schrenk. Eng news Feb 24, 1916. 2 p

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## **ACTION OF SEA-WATER ON CONCRETE, ICE AND STEEL**

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**Application** of reinforced concrete to maritime work by Alexander Nikolsky. Int nav congress 1907. 11 p pl

**Application** of reinforced concrete to maritime construction in France; methods for insuring its preservation by Jean Voisin. Int nav congress 1908. 34 p pl

**Chemistry** of salt water cement by S. Taft. Monthly jour of engs club of Baltimore Feb 1914. 5 1-4 p

**Concrete** in sea water on New England coast by Col F. V. Abbot. Pro mem 1914. Vol 6. 8 p ill

**Concrete** laid in freezing weather, New York state barge canal by D. A. Watt. Pro mem 1914. Vol 6. 5 p

**Corosin** of steel wharves at Kowloon by S. H. Ellis. Pro inst civ engs 1914-15 paper 4111

**Effects of sea water** in cement, on long time tests of Portland cement by I. Hiroi. Trans am soc civ engs 1913 paper 1263

**How to make concrete** resist action of sea water by W. W. Pagon. Eng rec May 27, 1916. 1 1-2 cols

**Ice formations** (brief account of the main results of a study of ice conditions on the St. Lawrence river) by H. J. Barnes. Jour of the New England waterworks assn Boston Dec 1910. 3000 w

**On concrete** in relation to maritime works by J. Kyle and H. E. Carcy. Eng Lon May 28, 1897

**Only creosote** properly applied withstands toredo. Eng rec Feb 13, 1915 (abstract of paper by E. S. Christian)

**Placing concrete under water**, in Cement and concrete by L. C. Sabin. New York: McGraw-Hill 1907 \$5.00

**Plaster of paris** holds joint mortar exposed to tidal currents. Eng rec Feb 5, 1916

**Reinforced concrete work** in maritime situations by Brysson Cunningham. Cassier's mag Aug 1908. 19 p

**Report** on the most recent works constructed at the more important sea ports and especially those relating to breakwaters; application of reinforced concrete by H. Mönch. Int nav congress 1912. 16 p pl

**Report** on the most recent works constructed at the more important sea ports. . applications of reinforced concrete; means for insuring its preservation by Jean Voisin. Int nav congress 1912. 36 p pl

**Report** on the recent and most interesting breakwaters and application of reinforced concrete in the maritime ports of Algeria. Int nav congress 1912

**Some experiences** with concrete in the Republic of Panama by A. P. Crary. Eng news Feb 4, 1915. 2 p ill (gives effect of sea water and design of concrete roof)

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## PAVING

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**Paving for piers, warehouses.** Eng news May 13, 1915. 2 1-2 p

**Specifications** for street roadway pavements by S. Whinery. New York: McGraw-Hill 1913. \$1.00

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## LIGHTING, HEATING, VENTILATION

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**Handbook** for heating and ventilating engineering by J. S. Hoffman. New York: McGraw-Hill 1913. \$3.50

**The heating and ventilating** of buildings by R. C. Carpenter. New York: John Wiley & Sons 1914. 598 p ill 5th ed \$3.50

**Heating** the largest pier in the world. Power Aug 11, 1914. 1500 w ill  
**Illumination** of docks and wharves. Int mar engng Sept 1913. 1 p ill

**Latest methods** for lighting docks and piers. Ry & mar news Sept 1, 1913. 1 1-2 p ill

**Unique system** of illumination for harbor channels. Sci am Mar 21, 1908. 6 p

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## WHARF FIRES AND FIRE PROTECTION

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**Control** of automatic sprinklers by F. J. Miller. Am soc mech eng No. 1422 10c

**Fire extinguishers** for ship use by Henry Williams. Journ am soc nav engs 1913. 20 p ill (thorough discussion of extinguishers)

**Fires in piers** and docks. Safety engng Nov 14, 1914. 3000 w

**High pressure** fire system by R. C. Carpenter. Am soc mech eng No. 1251. 50c

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## CONSTRUCTION DETAILS AND EQUIPMENT

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**Concreting plant** for Halifax ocean terminal work. Eng news Feb 10, 1916

**The construction plant** for the Pacific locks of the Panama canal. Eng rec Dec 19, 1908. 1 p

**The contractor's plant** and methods on the harbor work at Gary. Eng rec Aug 17, 1907. 3 p

**Exceptionally heavy** and complex pile driver (for Halifax port work). Eng news May 28, 1914. 2 p ill

**Floating caisson** for capping subaqueous piles by John Taylor. Eng news Apr 23, 1914. 3 1-2 p ill

**Frame** enables slanting holes to be bored under water. Eng rec Jy 3, 1915

**Guide frame** used to drive piles in 22 ft tide at Balboa. Eng rec Dec 25, 1915

**Machine** for cutting off piles. Pro mem 1910, vol 2. 2 p

**Method** of bracing piles below low water level by W. J. D. Reed-Lewis. Engng-contr May 3, 1916. 1-4 p diagrams

**Quebec**, on methods of dock and harbor work by W. Pilkington. Pro inst civ engs 1899-1900 Vol 139 8 p

**Plant and methods** employed in building concrete south pier at Superior entry Duluth. Annual report of ch eng U. S. A. 1904. Part 4

**Plant** for harbor and sea work by W. Pitt. Pro inst civ engs 1892-3 Vol 113

**Special outrigger** for driving piles under trestles (batter piles). Eng news Dec 24, 1914

**Subaqueous** foundation by C. F. Fowler New York: John Wiley & Son

**Traveling stages** for harbour work. Engng Mar 17, 1911. 2 p ill plans

**2500-ton** concrete cribs are built and launched in a "shipyard". Eng rec Jan 15, 1915

## **COSTS**

**Assessment** of damage to maritime works by E. Latham. Engng Jan 8, 22, 1915. 5 p ill (gives value of harbor works etc)

**Cost of terminal freight** handling in port of New York. Eng news Mar 31, 1910. 2-3 p map

**Philadelphia.** Comparative cost of different pier designs. Eng rec Je 6, 1914. 1 p ill

**Railway companies' docks.** Ry news Je 12, 1915 (gives amount spent and lineal feet of wharfage at railway ports)

**Rapid cost estimation** of piers and breakwaters. Pro mem 1912 vol 4. 8 p

**Results of investigation** in the cost of ports and of their operation by E. L. Corthell. Int nav congress 1907

**The waterways** of the United States by A. H. Weber. U. S. waterways commission dock No. 15. (Gives expenditure to 1910) 18 p

## **EXAMPLES OF WHARF AND TERMINAL CONSTRUCTION AND DESIGN**

**Atlantic city** steel pier. Eng rec Jy 1, 1899

**Balboa terminal.** Engng Jy 23, 1915. 3 1-3 p plans ill (gives details of concrete wharves and cylinder foundations)

**Baltimore city's** new dock system. Eng news Oct 1, 1908

- Baltimore city's new dock system** by O. F. Lackey. Cornell civ engr Nov 1910. 15 p plan ill
- Building piers 30 and 32.** Methods of casting concrete piers in the dry within cylindrical caissons driven into the bottom of the bay. (San Francisco) Eng rec Dec 5, 1913. 2 p ill pl plans
- The Chalmette docks** of the New Orleans terminal co. Eng rec Jy 28 Aug 4, 1906. 7 p ill (Full details of methods of construction)
- Chelsea municipal docks.** Munic jour & eng Nov 3, 1909. 6 p ill
- Coal piers** on the Atlantic seaboard by J. E. Greiner. Pro am soc civ engs Oct 1913. (Details of coal piers and their equipment) 49 p
- The cofferdam** for the 46th St pier N. R. New York City. Eng news Jy 23, 1914. 3 1-2 p ill
- Commonwealth pier** No 5 (400 x 1200 foot pier with two story steel shed on solid fill and pile foundations between docks 40 ft. deep.) Eng rec Sept 6, 1913. 2 1-2 p plans
- Concrete cribs** used successfully in dock construction. Eng rec Aug 7, 1915. 2 1-2 p ill
- Concrete monolith pier** Bristol. Eng rec Aug 8, 1908. 1-2 p
- Concrete pier** at Newlyn harbor Eng. Eng rec Aug 10, 1907
- Concrete pier construction** on the Pacific coast by H. A. Crofts. Casier's mag May, 1908. 5 p ill
- Concrete pier construction** on the Pacific coast by H. H. Dunn. Casier's mag Nov 1909. 6 p (The new reinforced concrete wharf at Santa Monica)
- Concrete piers,** port of Genoa. Engng May 2, 10910. 1 1-2 p ill plans
- Concrete pile** and cylinder foundations at Charleston. Eng news Nov 11, 1915. 3 p ill
- Concrete pile piers** at Brunswick, Ga. Eng news Dec 20, 1906
- Construction of the Grand Trunk Pacific depot.** Largest frame dock, pile arrangement, framing details, special features of protection by R. H. Dunlap. Pac builder and engr Feb 25, 1911. 3 p
- Construction** of the Old Orchard pier, a promenade pier 1800 ft long on steel piles. Eng rec Feb 11, 1899. 2 p ill
- Cross wall pier** on piles. Eng rec Jan 6, 1912
- Deep cofferdam** for 1050 foot pier in New York. Eng rec Jy 19, 1914. 1 1-3 p ill
- Design features** of the Commonwealth pier No. 1, East Boston. Engng-contr Aug 19, 1914. 5 1-2 p designs and plans.
- Design of harbor works** at Portland, Oregon by C. W. Staniford, E. P. Goodrich and W. J. Barney. Eng news Oct 10, 1912. 6 p ill
- Development** of Oakland Cal. municipal waterfront by W. C. Willard. Engng contr Jy 16, 1913. 6 p
- Difficult underpinning** and dock work in Chicago. Eng rec Apr 20, 1907. 1 p

**Dock construction** in and around Buffalo by S. M. Kielland. Jour assn of engng socs Je 1902. 7 p

**Docking facilities** of the port of New York by F. O. Harris. Int mar engng Je 1911. 2 1-2 p table map

**Driving 106 ft concrete piles** in San Francisco piers. Eng rec Dec 18, 1915. 1 p ill

**Electrical equipment** and concrete construction at Auckland Harbor by W. Wilson. Eng mag Nov 1913

**Extension** of Malta naval dock yard and harbor. Engng Jan 1, 15, 22, Feb 19, 1909. 11 p plans ill

**Fish pier Boston** in harbor and terminal improvements at Boston Mass. Eng news Nov 2, 1911

**Floating concrete caissons** by H. S. Taft. Pro mem 1915. vol 7. 35 p plans designs and ill (concrete cribs float into place)

**Freight piers** No. 39-40-41 E. R. Eng rec Jy 22, 1911. 2 p ill

**Harbor construction** at Kobe and Yokohama Japan by W. C. Howe. Eng news Sept 18, 1913. 2 p (gives proposed layout of piers)

**Harbor development** at San Pedro by G. C. Munoz. Eng rec May 17, 1913. 2 p plans (construction details of the wharves in the outer harbor of Los Angeles with brief description of whole port)

**Harbor development** in Holland by H. Wortman. Trans am soc civ engs 1905. Vol LIV Part A

**A heavy concrete dock** on the Cuyahoga river at Cleveland. Eng rec Apr 3, 1909. 1 1-3 p ill plans

**Holland American line pier** Hoboken N. J. Eng rec Oct 16, 1909

**Immingham docks.** Engng May 14, 28, 1909. 6 p ill plans

**Improvement in pier construction,** San Francisco. Eng rec Jy 16, 1910. 1 p ill

**Kansas City** municipal wharf creosoted timber by C. R. Mandigo. Eng news Jan 25, 1912. 3 p

**Lackawanna freight pier** No 7 Hoboken. Eng rec Sept 12, 1908. 3 p plans

**A large pier** with granite walls Boston. Eng rec Je 10, 1911. 1 p ill

**Large reinforced** concrete pier at Halifax. Eng rec Je 13, 1914. 3 p ill plans

**Largest steamship pier** on Manhattan. Eng rec Aug 1, 1914. 2 p (44th St pier)

**Latest municipal pier** at Philadelphia (pier No. 19 built of concrete and steel) Eng news Jan 6, 1912. 1 2-3 p ill plans

**Light reinforced** concrete wharves Madras India by F. J. E. Spring. Eng news May 2, 1912. 2 p ill

**Longest municipal pier** in the U. S. (at Chicago) Eng rec Je 19, 1915

**Marine terminal** of Grand Trunk Railway at Prince Rupert Canada by W. T. Donnelly. Trans am nav arch mar engs Vol XIX Paper No. 13

- Method** of filling and dredging for a Jersey City freight terminal. (shows crib work etc) Eng news Dec 17, 1914. 2 1-2 p ill
- Modern wharf improvements** and port facilities by Foster Crowell. Eng mag Oct Nov Dec 1897
- Municipal harbor construction** in Minneapolis. Eng news Jy 30, 1914
- New Boston fish pier** by F. W. Hodgson. Eng rec Jy 6, 1912
- New dock** at Methil by B. H. Bluch. Pro inst civ engs 1912-13 paper 3894
- New dock facilities** of the Hocking Valley ry at East Toledo Ohio. Ry rev Apr 11, 1914. 4 1-2 p ill
- The new East Boston docks** by H. L. Alden. Harvard engng jour May 1910. 8 p ill
- The new fireproof piers** of the North German Lloyd Steamship Company at Hoboken N. J. Eng news Jan 3, 1901. 2 p ill
- New freight pier** at Communipaw N. J. Ry age gaz May 9, 1913. 21-2 p (shows track layout at Communipaw pier)
- New method** of wharf building by H. A. Crafts. Eng rec Mar 21, 1908 (concrete cased piers)
- The new harbor works** at Constanza on the Black Sea by B. Bock. Deutsche Bau Mar 31, 1911. 4 p ill
- New municipal piers** in Baltimore harbor. Eng rec May 8, 1909. 3 1-4 p ill plans
- New piers** in South Brooklyn. (proposed design) Eng rec May 11, 1907. 1-2 p plan
- New San Francisco** shipping piers with concrete cylinder foundations and fire proof deck and superstructure by J. G. Little. Eng news Jy 8, 1909. 1 1-4 p ill plans
- New South Brooklyn** freight terminal by C. W. Staniford and Philip Guise. Eng news Mar 7, 1912. 8 p ill
- New South Brooklyn pier** at 35th St is the longest in New York. Eng rec Dec 18, 1915
- Novel steel piers.** Lome Africa. Eng news May 24, 1906
- Oak point float bridge** substructure construction (illustrated description of 12 transfer bridges for N. Y. N. H. & H. R. R.) Eng rec Apr 2, 1910. 2500 w
- Observations** on dock work in New York harbor by J. A. Bensel. Trans am civ engs 1905. Vol 54 Part F
- Ocean pier** of reinforced concrete. Eng rec May 11, 1912. 1 p ill
- Philadelphia's Southwark piers.** Eng rec Oct 16, 1915 (reinforced concrete piers)
- Pier built on cylinders** cast as concrete shells and filled in place Puget Sound Navy yard by H. L. Muchemore. Eng rec Je 22, 1912. 2 p ill
- Pier construction** in San Francisco harbor by Jerome Newman, in report of the 2nd annual meeting of the Pacific coast association of port authorities 1915 Sacramento. California state printing office 1915 5 p

- Pier 3 of Boston terminal** of Boston & Albany R. R. Eng rec Dec 25, 1909. 3 1-4 p ill plans
- Pier twenty-eight** San Francisco by F. G. White. W engng Je 1914 (reinforced concrete pier on cylinders constructed in open caissons) 11 p ill plans
- Proposed inner harbor plan** for the city of Richmond on San Francisco bay Engng contr Dec 4, 1912. 3 p
- Proposed plan** for waterfront and harbor development at Toronto Canada. Engng-contr Jan 8, 1913. 2 p
- Reconstruction** of a Jersey City railway passenger terminal. Eng news Jy 30, 1914. 6 p ill (gives ferry racks, piers etc)
- Reconstruction** of the Tyne north pier. Engng Jan 28, 1910. 9 p ill
- Reinforced concrete** coal pier for Pennsylvania R. R. Eng news Mar 2, 1916. 1 p plans
- A reinforced concrete dock** by A. P. Brown. Eng rec May 21, 1910. 1 p
- Reinforced concrete** hollow caissons floated into place in piers Kobe harbor works. Eng news Je 1, 1911. ill
- Reinforced concrete** in ore dock construction. Cement age Mar 1912. 4 p (details of concrete piles etc)
- Reinforced concrete piers** in Baltimore harbor. Eng news Oct 1, 1908. 3-4 p plans
- Reinforced concrete pier** Santa Monica Cal by E. H. Warner. Eng news Dec 9, 1909. 2 p
- Reinforced concrete substructure** of Havana docks company piers (design of piers, and fabrication and driving of reinforced piles). Eng news Apr 27, 1912. 2 p ill
- Reinforced concrete wharf** at Balboa, Canal Zone from 1911 annual report of Isthmian canal commission. Eng news Dec 21, 1911. 2 p
- Reinforced concrete wharf** of United Fruit company at Bocas Del Toro, Panama by T. H. Barnes. Trans am soc civ engs 1910.
- Reinforced concrete wharf** with granite foundations; harbor improvements at Iloilo, Philippine Islands by W. T. Howe. Eng news Nov 20, 1913. 7 p ill
- Reinforced concrete wharves** and warehouses at lower Pootung, Shanghai by S. H. Ellis. Pro inst civ engs 1911-12. 130 p ill plates (Thorough discussion of concrete wharf and warehouse construction.)
- Report** to ministers of railways and canals by F. W. Cowie. Ottawa 1913 (on new terminals at Halifax, consulting engineer's report, elaborate)
- Shipping piers** in Southwark district. Eng news Aug 26 1915. 3 1-2 p ill plans
- Some recently constructed piers** and harbors on the north and west coasts of Scotland by J. Barron. Pro inst of civ engs 1889-90. 4 p vol 99
- Steel and concrete dock wall** (removing south end of dock 10 in Ashtabula harbor Ohio) by Charles Benham jr. Eng news May 18, 1911. 4 p

- Steel and concrete wharf** at Tampico. Eng rec Apr 8, 1905. 2 1-2 p ill
- Steel wharves** at Manila. Eng rec Je 16, 1906.
- Structural and mechanical features** of a railroad freight pier. (Lackawanna freight pier at Hoboken) Eng rec May 24, 1913. 2 p ill
- Substructure** of pier 4, Boston terminal, Boston & Albany railroad. Eng rec Jan 29, 1910. 3 p
- The Stuyvesant docks** of the Illinois central railroad. Eng rec Je 23, 1906. 3 1-2 p ill
- Superstructure** of Chicago municipal pier. Eng news Aug 12, 1915. 2 1-2 p ill
- Suspended fenders** a feature of new reinforced concrete piers at San Francisco by F. G. White. Eng rec Feb 20, 1915. 2 p ill (gives details of recent concrete pier construction)
- Transfer bridge**, Jersey City by J. A. Bense. Trans am soc civ engs 1888 2 p plan
- 2500-ton concrete cribs** are built and launched in a "shipyard." Eng rec Jan 15, 1916. 5 cols ill
- Use of concrete** in reconstructing the Folkestone pier. Eng rec Oct 24, 1908. 3 p plans
- Waterfront engineering** in American cities. Eng rec Jy 8, 15, 22, 29 and Aug 5, 1899. 8 p
- Wharf at Key West** for submarine mines and quarter master by Maj J. R. Slattery. Pro mem 1915. vol 7. 8 p (detailed plans and cost of reinforced concrete wharf.)
- Wharf construction** at Fort Mason (San Francisco) Eng rec Aug 6, 1910. 3 p ill (reinforced concrete piers)

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## COAL AND ORE WHARVES

- Coal and ore docks** of B & O at Lorain, Ohio. Ry age gaz Jy 28, 1911
- The mechanical handling** of coal and ore by A. E. Brown. Eng news May 18, 1911
- New ore and coal handling docks** of the Penn Co at Ashtabula Ohio. Eng rec Sept 12, 1908. 5 p ill
- Preliminary report** of committee on yards and terminals. Bulletins No 44 (Oct 1903) and No 48 (Feb 1904). Am ry engng & maintenance of way ass'n (gives detailed account of coal and iron ore piers)

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## COAL WHARVES

- Aerial ropeway** at Montevideo. Engng Nov 26, 1909 (Device for conveying coal to the electric power station from lighters moored alongside a dolphin built offshore) 3 p ill
- The California city point coal pier.** Eng rec Je 27, 1908 (The United States naval coal pier in San Francisco is parallel with the shore line and one hundred and fifty feet beyond it; it is served by a system of cable cars) 2 p plans

- Chesapeake and Ohio coal pier** by E. J. Knapp. Iron trade rev May 21, 1914
- Chesapeake and Ohio railway company's new coaling pier** at Newport News. Int mar engng Aug 1914. 1 p ill
- Coal loading methods** at United States ports by J. F. Springer. Colliery engr Jy 1914 (Modern coal piers at Newport News, Baltimore, Philadelphia and New York) 3 1-2 p ill
- Coal-loading plant for Japan.** Col guard Dec 18, 1908. 2 cols
- Coal pier** with car dumping machine at Sandusky. Eng news Mar 11, 1915. 3 p ill
- Coal piers** on the Atlantic seaboard by J. E. Greiner. Trans am soc of civ engs Dec 1914. 49 p
- The coaling machinery** of Savona harbour by F. Collischom. Elect Jan 17, 1908) Hunt system of movable elevators with a cable railway)
- Coaling station** at Guantanamo Cuba by W. P. Engelman. Ir age Je 24, 1909. 2 p
- Description** of iron coal pier at Norfolk and some of the methods used in its construction by W. W. Coe. Trans am soc civ engs 1892.
- Electrical equipment** for docks. with special reference to electrically operated coal hoists by Walter Dixon and G. H. Baxter. Engng Jan 27, 1911. 7 p ill plans (Rothesay dock Glasgow)
- Electrically operated steel coal pier** of Norfolk & Western railway. Eng rec Jan 24, 1914. 2 1-2 p ill
- An interesting** German coal loading installation. Col guard Feb 5, 1909. 1 p (Describes traveling crane in Emden harbor)
- A large coal dock** at Duluth. Eng rec Oct 23, 1909. 3 p ill
- A large coal storage wharf** at Superior. Eng rec Nov 30, 1907. 2 p
- Movable river tippie.** Col eng Jy 1914. 2 p ill (Device for coaling river boats at different stages of water)
- The Narragansett bay coal depot** by Augustus Smith. Trans am soc civ engs Dec 1906. (Gives details of traveling towers for loading and unloading coal on wharf)
- New coal pier** for Norfolk & Western railway at Norfolk Va. Ry rev Feb 21, 1914. 6 p ill (Lamberts point terminal, reinforced concrete in steel cylinders)
- New coal pier,** Norfolk & Western ry Lamberts Point, Va by W. P. Wiltsee. Eng news Apr 23., 1914. 6 p ill
- New coaling dock** at St. Thomas, the first unit of extensive harbor improvements by C. T. Mason. Sci am sup Aug 15, 1914. 1 p
- New Norfolk & Western coal pier** at Norfolk, Va. Ry age gaz Mar 27, 1914. 4 p ill
- New railroad coaling pier** to have belt conveyor. Eng news Apr 6, 1916. 1 p ill plans
- New Southern railway coaling pier** at Charleston S. C. Int mar engng Apr 1915. 2 1-2 p ill

- New Toledo coal dock** built in record time. Eng news Sept 9, 1915. 3 1-2 p ill
- Novel German electric coal-tipping device** by F. C. Perkins. Sci am sup Feb 2, 1907. 1 1-2 p ill (device for different tide levels)
- Pennsylvania begins a large coal pier at Baltimore.** Eng rec Feb 5, 1916. 1-3 p
- Ports of the world**, reports of coaling, docking and repairing facilities of the ports of the world. Office of naval intelligence. Wash: Govt printing office 1909. 239 p 5th ed
- Reinforced concrete coal pier** for Pennsylvania R. R. Eng news Mar 2, 1916. 1 p plans
- Sewall's Point coal pier** by F. F. Harrington. Mines & minerals Jan 1910. 2 1-2 p
- Swansea, king's dock;** hydraulic coal tipping apparatus. Ry news Jan 13, 1912. 3 1-2 p ill
- 30-ton hydraulic coaling tip.** Engng Nov 19, 1909. 2 1-4 p ill and design
- Three tramway bridges** on the coal storage dock of the Berwind -White coal mining co Superior Wis by W. R. Wetherill. Eng news Je 18, 1908. 2 p ill
- The transfer of coal** to and from ships. Int mar engng Sept 1913. 2 1-2 pill (on the design of cranes and transporters)
- U. S. coaling wharf** (Guantanamo). Eng rec Feb 9, 1907. 1 1-2 p ill (reinforced concrete)
- The Virginian railways coal handling plant**, the coal shipping terminal at Sewall's point, Va. Ir age Jy 22, 1909.

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## COALING SHIPS

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- Coal conveyor** for loading ships. Engr Lon Jan 28, 1910. 1 p plan
- De Mayo system** for coaling ships. Int mar engng Mar 1915. 1 1-2 p ill
- Modern methods** of coaling vessels. Int mar engng Feb 1911. 8 1-2 p ill
- Patent barge** for coaling the Imperator and other large Hamburg-American steamships by F. C. Coleman. Int mar engng Mar 1914. 2 1-2 p ill plan

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## ORE WHARVES

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- Advanced methods** of handling the heavy commodities as exhibited in ports of the Great Lakes, system of North America by J. A. Sullivan. Int nav congress 1905. 17 p ill
- Concrete and steel ore dock** having new features in its design by W. E. King. Eng rec mar 9, 1912. 2 1-2 p ill
- 50,000 ton ore dock** at Marquette. Eng rec Jy 6, 1912. 2 1-2 p ill

- Foundations** for largest ore shipping dock in the world. Eng rec Aug 29, 1914
- An interesting aerial cableway** and ore handling plant in New Caledonia. Sci am sup Nov 27, 1909
- A large ore dock** at Escanaba. Eng news Jy 30, 1903. 2 p
- Modern handling** of iron ore on the Great Lakes by J. N. Hatch. Jour soc engs Dec 1902. 31 p ill
- Movement of iron ore** on Great Lakes by A. J. Mason. Journ soc engs Apr 1904. 14 p ill diagrams
- A new ore dock** and storage yard at Toledo. Eng rec Feb 11, 1911. 1 p
- New ore dock** at Two Harbors. Ry age gaz Jan 5, 1912. 2 p
- Ore dock** at Cleveland, Ohio. Eng news Feb 22, 1912.
- Ore docks** with metal piling. (Lorain). Eng news Aug 22, 1901. 1-2 p plans
- An ore-handling plant** in New Caledonia, an elaborate system of suspension tracks and cables, comprising four main lines, for carrying ore, coal, merchandise and passengers. Eng & min jour Feb 20, 1909. 5 p ill
- Ore unloaders** at Philadelphia. Iron trade rev May 20, 1915. 2 p ill
- Pennsylvania coal dock** at Sandusky. Ry age gaz Dec 25, 1914. 2 p ill (Plan profile and details of the yards and docks)
- Reinforced concrete** in ore dock construction. Cement age Mar 1912. 4 p
- Reinforced concrete ore docks.** Eng news Jan 2, 1913. 6 p ill (Details of ore docks on the Great Lakes)
- Reinforced concrete** ore loading dock. Eng rec Je 8, 1912. 1 1-2 p ill
- Steel ore dock** at Narvick by John Birkinbine. Ir age Jan 9, 1908. 4 p
- Steel ore docks** D & I R R R (at Two Harbors). Eng news Jan 2, 1913. 2 p ill
- A structural steel ore dock** at Two Harbors. Eng rec Dec 5, 1908. 2 p

## LUMBER WHARVES

- Covered slip** and pier with gantry cranes for handling lumber. Eng news Sept 9, 1915. 1 1-2 p plans
- Lumber dock** at Balboa by G. R. Goethals. Eng rec Jy 20, 1912. 3 1-2 p plans ill
- Lumber operations** on the Atlantic coast; modern lumber steamers and complete terminals under construction for shipping lumber from Florida to New York. Int mar engng Mar 1915. 1 1-2 p plans ill
- Monorail system** of handling lumber (St Andrew, Fla.) Int mar engng Nov 1913. 1-2 p ill
- Notes** on the arrangement for receiving importations of timber at Portishead dock Bristol by J. W. Kitchen. Pro inst civ engs 1906-07. (Describes quick-running cranes, ill)

## DRY DOCKS

- Avonmouth, England**, wet and graving dock by A. D. Swan. Can soc of civ engs Dec 16, 1909
- Calculations** for the stability and displacement of graving docks by Leonard Goddey. Can eng Apr 10, 1910. 2 1-2 p diagrams
- Design of a dry dock** by A. W. Young. Engng Sept 3, 1904. 3 1-2 p plans (formulae and designing)
- Dock book** by Hydrographic office. (Containing dimensions of the principal dry, floating and wet docks, patent slips, etc. of the world, also information on ship building and engineering works in countries other than the United Kingdom.) London 1905, Supplement to Dec 1907. 5th ed 219 p
- Dry dock** at Ashtabula by E. C. Bowen jr. Eng news Mar 14, 1912. 5 p ill
- Dry docks** by C. A. Brereton. Int eng congress 1904. Trans am soc civ engs 1905 Vol LIV Part F
- Dry docks of France** by A. Joly. Trans am soc civ engs 1904 Vol LIV Part F
- Dry docks of France.** Trans am soc civ engs 1893
- Floating dry dock** construction by W. T. Donnelly. Pro Brooklyn engs club 1905. 23 p
- New dry dock** for San Francisco. Eng news Nov 26, 1914. 2 1-2 p ill
- New graving docks** and shipyard on the river Tess. Engr Lon Oct 18, 1907
- New dry dock for San Francisco.** Eng news Nov 26, 1914. 2 1-2 p ill
- Opening of new dock of moment to coast.** (Puget sound navy yard) Ry & mar news Mar 15, 1913. 1 p
- Ports of the world.** Reports of the coaling, docking and repairing facilities. Wash: Govt printing office 1909. 139 p (office of naval intelligence)
- Proposed method** of constructing Pearl harbor dry dock. Eng news Jan 14, 1915. 3 1-2 p ill
- 22,000 tons** floating dry dock for Brazil. Int mar engng Jan 1911. 12 1-2 p ill
- Works** of Canadian Vickers Ltd at Montreal. Engng Feb 5, 1915. 7 p ill (Dry dock and ship repair works)

## EQUIPMENT

### GENERAL

- Die arbeitsmaschinen zum forderen fester und flussiger Körper.** Vol 4 of Allgemeine Maschinenlehre. Berlin: W. & S. Lowenthal 1885. 809 p ill
- Der aufzugbau** by Hugo Bethmann. Braunschweig Vieweg und Sohn 1913. 720 p 1166 ill 29 pl 52 tables

- Barge canal terminals** by H. McL. Harding. Eng rec Aug 26, 1911. 2 p ill
- Bestimmungen** über Einrichtung und Betrieb der Aufzüge by H. Jaeger. Berlin: Carl Heymann 1910. 124 p
- The Bush docks in Brooklyn**, New York. Ry & engng rev Aug 15, 1903. 2 p ill
- Cargo handling at smaller piers** and terminals by H. McL. Harding. Int mar engng Aug 1911. 2 p (Telephers)
- Cargo transference** at steamship terminal by H. McL. Harding. Pro am nav arch & mar engs 1911. Vol XIX paper 14
- The Chalmette docks** of the New Orleans terminal co. Eng rec Jy 28, 1906. 7 p
- Design and construction** of freight steamships, from the cargo transferring standpoint by H. McL. Harding. Int mar engng Je 1911. 2 1-2 p ill
- Design of machinery** for water-borne freight by H. McL. Harding. Waterways Oct. 1910.
- The design of terminals** for mechanical freight handling by H. McL. Harding. Eng rec May 28, 1910
- Dock and wharf equipment** by J. L. Holmes. Pro inst civ engs 1909-10 paper 3850
- Dock pumping plant** for Sasebo dock yard, Japan. Engng Mar 10, 1911. 2 p ill plans
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